



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation and study of Oregon's native plants and habitats

VOLUME 47, No. 1

FEBRUARY 2014

NPSO Annual Meeting, Cannon Beach, June 6 - 8, 2014

On June 6 - 8, 2014, the NPSO Annual Meeting will be held in Cannon Beach, located in Clatsop County, approximately 80 miles west of Portland and 25 miles south of Astoria.

The first recorded Euroamerican contact in what is now Cannon Beach took place in the winter of 1805-06 when members of Lewis and Clark's Corps of Discovery traveled south from Fort Clatsop, their winter encampment near modern-day Astoria, and bartered with Native Americans of the Tillamook tribe for whale blubber and oil. William Clark named Ecola Creek, which enters the Pacific at Cannon Beach, after the Chinook word *ehkoli* for "whale." In 1811, Astoria, which is situated at the mouth of the Columbia River, was established as a fur-trading post by John Jacob Astor

making it the first American settlement in the Northwest. The cultural history of the north coast is captured in the many historically significant sites, such as Fort Stevens, Fort Clatsop and Cape Disappointment in Lewis & Clark National Historical Park, and the beautiful Columbia River Maritime Museum in Astoria.

The venue for the meeting is the Surfsand Resort, 148 W Gower St., about 0.5 miles south of downtown. If you choose to stay at the Surfsand, *please book your room by phone (800-547-6100) and mention that you are affiliated with the Native Plant Society of Oregon (NPSO).* The resort has a heated swimming pool, fitness center and sauna, and all Surfsand rooms come equipped with microwave ovens, coffee makers and small refrigerators. However, participants are under no

obligation to stay at the resort. On the meeting website (www.npsoregon.org/annualmeeting.html), you will find a link to nearby lodging, including three campsites in Cannon Beach and others nearby.

Cannon Beach is known for its beautiful beach, open to the public along its entire four-mile length, and for its proximity to 235' tall Haystack Rock, one of the largest sea stacks on the U.S. Pacific Coast. The rock and adjacent smaller sea stacks ("The Needles") are surrounded by tidepools; their rugged cliffs serve as nesting sites for many seabirds, including murrelets, cormorants and puffins, and are protected as a marine sanctuary (part of

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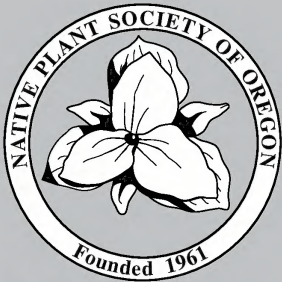


CRAIG MARKHAM

Haystack Rock will be part of the view for this year's Annual Meeting at Cannon Beach.

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOOregon.org>

E-mail Discussion List

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Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Kalmiopsis Seeking New Editor

If the experience of being the editor of a classy botany journal is on your bucket list, then you should jump at this chance. Due to unforeseen circumstances, the current editor is unable to continue, so a new editor is needed for the 2015 issue. Although the new editor will no doubt make a number of changes, he/she will find that all the infrastructure is in place for moving ahead seamlessly. There is an experienced editorial board, a typesetter who has done the layout since the first issue, a printer who reliably gives an excellent product at a fair price, and a mail service that adds labels and deals with the bulk mail without a glitch. Information about the editorial responsibilities is on page 7 of the NPSO Board Handbook (www.npsoregon.org/documents/NPSOBoardHandbook.pdf). If you are interested and have some experience in botany and editing, contact Judi Sanders at president@npsoregon.org.



It's Still Renewal Time

The NPSO membership year is January to December.

If you haven't already renewed for 2014, check your address label on this *Bulletin*. If you see 2013 printed along the top of the label, you need to renew. Your membership will lapse if you do not send in your dues soon. Renew now to make sure you don't miss receiving NPSO publications.

NPSO brings you field trips, programs, classes, the *Bulletin*, and *Kalmiopsis*.



NPSO Seeks Candidates

Please consider taking the opportunity to serve our Society by running for election to one of the state-wide officer or at-large board of director positions. Interested persons and people with ideas for potential candidates may contact Dan Luoma by email (daniel.luoma@oregonstate.edu) for more information.



Plan Now for Native Plant Appreciation Week

Though the weather outside is frightful, the arrival of spring will be so delightful. While dreaming of spring, it's never too early to start planning for this year's Native Plant Appreciation Week, taking place April 27-May 3, 2014.

This is the largest coordinated public outreach event for the Native Plant Society of Oregon and an excellent opportunity for society chapters throughout the state to sponsor workshops, hikes, plant sales, etc. and help increase their chapter's visibility and membership.

We all get much busier as the weather improves so now is the time to plan. Be sure to post your activities in the NPSO *Bulletin* and to let the NPAW Committee know about them as well. Email any information to Judi Sanders at judi.sanders@gmail.com.

NPSO CALENDAR

State Notes

NPSO Board Meeting

February 1, Saturday, 10 am - 2 pm

The next State board meeting will be in Salem at the Straub Environmental Learning Center, 1320 A Street NE, Salem, OR 97301.

NPSO Annual Meeting 2014

June 6 - 8, Friday - Sunday

The 2014 Annual Meeting will be sponsored by the Cheahmill Chapter. Join us for a coastal weekend in and around Cannon Beach. Meeting headquarters will be at Surfsand Resort. The Saturday banquet will include a keynote address by ecologist Kathleen Sayce. Registration and field trip information is in this Bulletin and online at www.npsoregon.org/annualmeeting.html. For information on student scholarships, contact Lisa Blackburn at npsoannmtg2014@gmail.com.

Blue Mountain

For information on Blue Mountain Chapter call Jerry Baker, 541-566-2244.

Cheahmill

For more information, visit the chapter Web site, www.oregon-nativeplants.com. To be added to the e-mail list for upcoming programs and events, please contact cheahmillchapternpsocomcast.net.

February 27, Thursday, 7 pm

Talk: Protecting Fender's Blue Butterfly along Yamhill County Roads.

Learn how public roads and endangered butterflies can coexist. Yamhill County Public Works Director, John Phelan, and Melissa Klungle, environmental consultant from Cardno ENTRIX, will guide us through the development of Yamhill County's Habitat Conservation Plan to protect the endangered Fender's blue butterfly. Doors open at 6:45 pm for socializing, meeting/program starts at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St.

(corner of Hwy 99W and SW 2nd St.) Parking lot entrances on Adams and 2nd Streets. For more information contact: Luke Westphal, 971-388-9200 or lukeowestphal@gmail.com.

Corvallis

For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Alexis Brickner or Kevin

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. **BRING WATER AND LUNCH.** Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. A sample waiver form is available at http://npsoregon.org/documents/NPSO_waiver.pdf. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Dogs are not allowed. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. You must pre-register for all events. National Forests require a Northwest Forest Pass for some field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12. A trip leader checklist and sample waiver form are available at: <http://npsoregon.org/calendar.html>

Weitemier at co_president@NPSOregon.org or 208-921-0827.

February 8, Saturday, 8 am - 3:30 pm

NPSO Table: Insights into Gardening. Corvallis NPSO will be staffing a table at Insights into Gardening, a day-long seminar offering practical, hands-on learning for home gardeners and gardeners-to-be. You will find plenty of ideas to make your gardening easier, more enjoyable, and more successful. Raffles, exhibits, and books for sale by Grass Roots will be available. Pre-registration is \$30, \$35 at the door. Information: www.extension.oregon-state.edu/benton/insights.

February 10, Monday, 7:30 pm

Talk: Plant Communities of Florida.

NPSO member Carolyn Kindell will take us on a tour of Florida's major terrestrial plant communities, rare plants, and a history of land conservation and management in the state. She will discuss and have on hand a copy of the Atlas of Florida Biodiversity, published by the Florida Natural Areas Inventory in 2011. Location: Avery House in Avery Park. Information: Kevin, 208-921-0827.

Emerald

Visit the Emerald Chapter Web site at <http://emerald.npsoregon.org> to learn more about the latest chapter events, plant lists & botanical information about Lane County plants & the people who love them.

Meeting location: Conference Room at Lane County Mental Health, 2411 Martin Luther King Blvd. Turn off MLK Blvd. onto Scout Access Rd. across from Autzen and take the first left into the parking lot. The meeting room is on the right side as you face the building.

February 20, Thursday, 7:30 pm

Meeting/Talk: The Sex Life of the Bigleaf Maple and Other Plant Breeding Systems.

David Wagner talks about how Bigleaf Maple seems to have perfected the ideal breeding

system for maximizing outcrossing (to avoid inbreeding) while hedging bets for adequate seed production. Plants, being unable to move around, have a variety of passive systems for enhancing outcrossing. Dr. Wagner earned his Ph.D. in Botany from Washington State University. He cofounded the NPSO Emerald Chapter 35 years ago. Location: Conference Room at Lane County Mental Health, see above for directions. For more information, call 541-349-9999.

March 20, Thursday, 7:30 pm

Meeting/Talk: The Delta Ponds Habitat Enhancement Project. Lauri Holts, a natural resources coordinator with Eugene's Parks and Open Space Division, gives a presentation on this project, completed in 2012 to provide critical rearing habitat for juvenile Chinook salmon. The presentation will include a brief overview of the historic and pre-project conditions and will describe the City's efforts to establish a diverse native plant community and control invasive species, including the most recent invader, the aquatic Uruguayan primrose-willow (*Ludwigia hexapetala*). Location: Conference Room at Lane County Mental Health, see above for directions. For more information, call 541-349-9999.

High Desert

For information, visit the High Desert Chapter website: www.highdesertnpsoregon.org and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email highdesertnps@gmail.com.

March 11, Tuesday, 6:30 - 8 pm

Program: Spring Meeting. Join us to discuss 2014 field trips and other activities. Light refreshments will be served. Location: Brooks Room at the Bend Downtown Library, 601 NW Wall St.

Volunteer Opportunity

The High Desert Chapter is working to bring back the Central Oregon Wildflower Show on June 20 - 21 at the Sunriver Nature Center (www.sunrivernaturecenter.org). The show was last held a couple years ago and wasn't expected to return after its volunteer

base fizzled out. If anyone has ideas for special programs, can volunteer to "harvest" specimens (on June 19), help ID, or be on hand to answer questions during the two-day show, please contact chapter vice president Susan Berger at suzyfishn@gmail.com.

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby at 541-884-5703 or smalaby@cs.com.

Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at wusara96@yahoo.com.

February 20, Thursday, 7 pm

Program/Meeting: The Columbia Land Trust. Over the last 20 years, the Columbia Land Trust (CLT) has conserved over 14,000 acres along the Columbia River and its tributaries, of which it is responsible for managing 12,000 acres. Lindsay Cornelius, stewardship lead for the CLT, will tell us how the Trust makes management decisions in one of the most ecologically diverse places in the world. She'll provide a few interesting case studies and suggest ways that we can contribute to the stewardship of these incredible local resources. Location: Room 1.366, Columbia Gorge Community College, The Dalles.

March 20, Thursday, 7 pm

Program/Meeting: The Oregon Biodiversity Information Center (ORBIC). For over 30 years, ORBIC has been the steward of information regarding the locations and statuses of rare species in Oregon. Lindsey Wise, biodiversity data manager, will provide an overview of the program and its value. She will show examples of records for rare plants found in the Gorge and discuss how NPSO members and others can help maintain and update this important resource. Location: Room 1.366, Columbia Gorge Community College, The Dalles.

Portland

If you would like to receive the chapter's semi-official e-mail newsletter, The Calochortus, e-mail Don Jacobson at donj-photo@gmail.com.

Facebook: Take a look at our Facebook page. Native Plant Society of Oregon-Portland-Chapter. It will have the most up-to-date information on hike and other events as well as great plant pictures.

Meeting location: The Portland Chapter meets the second Thursday of most months in the Metro Building at 600 NE Grand Ave., Portland. Enter from NE Irving St. on the north side of the building and walk across the upper plaza to the entrance (not the door on 600 NE Grand Ave.). An attendant will let you in and direct you to the meeting room upstairs. Meetings and programs begin at 7 pm.

February 13, Thursday, 7 pm

Program: Finding David Douglas, an Oregon Cultural Heritage Commission Film. Meet Lois Leonard, director and producer of this hour-long documentary about the 19th century Scottish botanist, David Douglas (1799-1834), for whom our Douglas fir tree is named. Along with a viewing of this film, Lois will discuss how she researched and filmed this critically acclaimed project. She will also be selling DVD copies of the film. Meeting location: Metro Building, see above for details. Contact: Mary Smith at alphie-smith@comcast.net or 503-288-4340.

March 13, Thursday, 7 pm

Program: Conserving Oregon's Environment: Breakthroughs That Made History. Past Sierra Club Director Michael McCloskey will discuss his new book, *Conserving Oregon's Environment*, with a slide show. He will tell the story of some 80 accomplishments to advance conservation in Oregon, including Oregon's Endangered Species Act, on which Oregon's Native Plant Society took the lead, and explains why Oregon is seen as a national leader. He will be selling and signing copies of his book. Meeting location: Metro

Building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

Siskiyou

To join the Siskiyou Chapter email list: Send an email, from the address at which you want to receive announcements, to announce-join@siskiyou.npsoregon.org. No subject or message is required. You will get a confirmation email. If you would like to volunteer to lead a hike in 2014, make a suggestion, or provide feedback regarding the field trip program please contact Sasha Joachims at: sasharain71@gmail.com.

February 20, Thursday, 7 pm

Program: Grasses of Southern Oregon: the Good, the Bad, and the Gorgeous. Cindy Roché, one of the illustrators of the grass volumes for *Flora of North America* and team member for writing the *Field Guide to Grasses of Oregon and Washington*, will show how to identify grasses and describe some of the native and invasive grasses of our region. Location: Southern Oregon University, Science Building, Room

171. Refreshments at 6:45 pm, meeting and program at 7 pm. Contact: Kristi: 541-941-3744.

March 13, Thursday, 4:30 - 6:30 pm

Workshop: Exploring Oregon's Native Plants. Presented by Bear Creek Watershed Education Partners and the Siskiyou Chapter of the Native Plant Society, this workshop is open to classroom teachers, informal educators, and anyone interested in sharing native plants with students. Stacy Moore of the Institute for Applied Ecology will present hands-on lessons to help your students explore native plants. She will share activities from the curriculum, *From Salmonberry to Sagebrush: Exploring Oregon's Native Plants*. Location TBA, more details to follow.

March 20, Thursday, 7 pm

Program: Poseidon to Zeus...a Geobotanical Romp from Low Tide to the Summit of Saddle Mountain. Local author, geologist, and naturalist Don Begnoche will lead us on a

virtual romp exploring the area around Cannon Beach. This talk will also be a great introduction for folks attending the NPSO Annual Meeting this year. Location: Southern Oregon University, Science Building, Room 171. Refreshments at 6:45 pm, meeting and program at 7 pm. Contact: Kristi: 541-941-3744.

Umpqua Valley

Visit www.umpquavalleynativeplants.com for more information on chapter activities or to be added to our e-mail list.

Willamette Valley

For program information, contact John Savage at 503-399-8615 or Alexandra Ninneman at 503-391-4145.

William Cusick

Visit our Web site at <http://williamcusick.npsoregon.org> or contact Laurie Allen at 541-805-0499 for updates and general information.

OTHER EVENTS

Ashland Parks & Recreation

February 11, Tuesday, 6:30-8:30 pm

Talk: Science in the Cascade-Siskiyou National Monument. Join the Friends of Cascade-Siskiyou to learn about some of the research and education occurring in this National Monument. It's just a short drive from our front doors! Kristi Reynolds, environmental education and interpretation consultant, will facilitate the panel discussion. Pre-register online at www.ashland.or.us/register or call the North Mountain Park Nature Center at 541-488-6606. Cost: \$5. Location: North Mountain Park, 620 N Mountain Ave., Ashland.

KS Wild

February 8, Saturday, 9 am

Hike: Sterling Mine Ditch Trail.

Enjoy a winter hike! This low-elevation trail follows the decommissioned Sterling Mine Ditch through a diverse array of ecosystems including pine oak savannah, old growth conifer forest, white oak woodland, riparian forest and chaparral. This is a moderately strenuous 5 mile hike with sweeping views of the Little Applegate Valley and the Siskiyou Crest. Come prepared with lunch, water, and layers for the weather. Location: Carpool meets at Evo's Coffee in Ashland at 9 am. To learn more and RVSP, call Morgan at (541) 488-5789 or email morgan@kswild.org, or visit www.kswild.org.

Lane Community College, Eugene

April-May, Wednesdays, 4-7 pm

Class: Wildflower ID Outdoors.

Taught by Marcia Cutler of NPSO Emerald Chapter. We will focus on plant ID and keying, spending all our time in the field, meeting at areas within 20 miles of Eugene-Springfield. Subjects include plant families, botanical terminology, keying to a specific plant (using Gilkey and Dennis's *Handbook of Northwestern Plants*), habitat, ecology, etc. This is a community education class: no tests, no term papers (yea!) but no credit (boo). Any level of expertise is welcome, from beginners to more experienced folks who want to practice keying, etc. Class #1 meets at the LCC main campus, 4000 E 30th Ave. (building & room not set yet). Classes #2 - 8 meet in various field locations. For more information, see the LCC Spring 2014 Catalog, (www.lanecc.edu) or contact Marci Cutler: 541-687-2559 or mar_c@efn.org. For registration information, call the LCC downtown center 541-463-5252.

2014 NPSO Annual Meeting Field Trips

Refer to the meeting website (www.npsoregon.org/annualmeeting.html) for field trip descriptions, maps, and other information. Refer to Kathleen Sayce's website "Columbia Coast Plants" (<http://users.reachone.com/columbia-coastplants/>) for plants lists for many of the field trips and descriptions of the physical environment and plant communities on the north coast. For additional information, email npsan-nmtg@gmail.com.

All field trips depart from the Surfsand Resort parking lot. (Information on alternative meeting places for some field trips is available on the meeting website). Carpooling is encouraged and expenses should be divided among passengers. Since the weather along the north coast may change from morning to afternoon and differ from low elevation to mountaintop, we recommend dressing in layers and carrying a rain jacket. Average early June high temperature is 61°, and rain and fog are to be expected.

Friday Field Trip

Ecola Creek Forest Reserve, noon – 3 pm. Leader: Barbara Linnett, Friends of the Cannon Beach Trail. Meet at 11:30 am. See description in #6 below.

Saturday Field Trips

1. High Peak/Moon Creek RNA. Leader: Dan Luoma, forest mycologist, Oregon State University (OSU). Strenuous (3 - 4 miles, steep slopes, off trail along ridgeline). A representative cross section of low- to mid-elevation forest associations in the northern Oregon Coast Range that, here, developed following late 19th century wildfires: 500-year-old *Pseudotsuga menziesii* with a *Tsuga heterophylla* subcanopy; riparian areas with *Alnus rubra*, *Acer macrophyllum*; *Thuja plicata* on mesic sites; *Abies procera* on the 2980' summit. Elevation gain 200'. Drive: 120 miles RT, some

rough roads, high clearance recommended. **Alternate meeting site: OSU Extension Service parking lot in Tillamook, 2204 4th St. (one block east of Hwy 101), 9 am.**

2. Neahkahnie Mountain in Oswald West State Park. Leader: Celeste Lebo, ecologist. Moderately strenuous (5 miles RT). The trail starts in old growth coniferous forest (*Pseudotsuga menziesii*, *Picea sitchensis*, *Tsuga heterophylla*, and *Thuja plicata*) up to a summit rock garden with views of Manzanita, Cape Lookout and the ocean. Diverse wildflowers: *Erythronium revolutum*, *Sidalcea hirtipes*, *Kopsiopsis hookeri*, *Castilleja hispida* (several color forms), *Synthyris reniformis*, *Silene douglasii*, *Viola adunca* ssp. *adunca*. Elevation at trailhead 800', summit at 1600'. Drive: 28 miles RT.

3. NeahkahnieSeacliffs, Oswald West State Park (1/2 day AM). Leader: Kathleen Sayce, ecologist. Easy (< 2 mi RT, some uneven ground). Hike along parts of the Oregon Coast Trail to spectacular basalt cliffs overlooking the ocean, meadows, seeps. Diverse wildflowers: *Castilleja affinis* ssp. *litoralis*, *Viola adunca* ssp. *adunca*, *Triteleia hyacinthina*, *Sidalcea hirtipes*, *Erigeron glaucus*, *Koeleria macrantha*, *Lomatium martindalei*, *Sisyrinchium idahoense* var. *idahoense*. Elevation 450' at parking area, dropping to 200' on sea cliffs. Drive: 23 miles RT.

4. Gearhart Fen Nature Conservancy Preserve (1/2 day PM). Meet at 12:30 for 1 pm departure. Leader: Debbie Pickering, Nature Conservancy ecologist. Strenuous (2 miles RT, will get wet; rubber boots recommended). A highly developed fen behind the oldest dune ridge in Gearhart with floating mats, sphagnum and numerous acid-tolerant wetland species, *Menyanthes trifoliata*, *Rhododendron columbianum*, *Kalmia microphylla*, carnivorous *Drosera rotundifolia*, *Comarum palustre*, stunted *Pinus contorta* var. *contorta*, and several orchid and sedge species. Drive: 20 miles RT.

5. Cape Falcon in Oswald West State Park (1/2 day AM). Leader: Hope Stanton, ecologist. Easy (5 miles RT). Hike through dense, old growth conifer forest, along creeks and meadows, to basalt and sandstone cliffs overlooking the ocean. Views overlook Short Sand Beach, Tillamook Head and Cape Lookout. Diverse wildflowers include *Erythronium revolutum*, *Satureja douglasii*, *Kopsiopsis hookeri*, *Poa unilateralis* (ESA threatened), *Artemisia suksdorfii*, *Moneses uniflora*, and *Erigeron glaucus*. Elevation gain 200' parking lot to headlands, 100' along sea cliffs. Drive: 20 miles RT.

6. Ecola Creek Forest Reserve (1/2 day PM). Meet at 12:30 for 1 pm departure. Leader: To be determined. Easy (4 miles RT). Hike on a closed road and side trail through a remnant temperate rainforest on the south fork of Ecola Creek (healthy runs of coho and steelhead). This 1,025 acre watershed includes 220 acres of never-logged, old growth *Picea sitchensis*, *Thuja plicata* and *Tsuga heterophylla*. Originally purchased by North Coast Land Conservancy (NCLC) and donated to the city of Cannon Beach, it now serves as its protected water supply. Drive: 4 miles RT.

7. Angora Peak. Leader: Melissa Reich, NCLC ecologist. Moderate (5 mi RT). Trail is an historic RR grade, passes through private timberland with active logging sites, and is normally inaccessible to the public. Rocky cliffs, meadows and scree slopes with undisturbed habitat for rare plants of Coast Range balds, including *Castilleja chambersii*, *C. hispida* (orange & yellow forms), *Cladothamnus pyroliflorus*, *Asarum caudatum*, *Phlox diffusa* and *Pentstemon cardwellii* (purple, light purple, pink, & white forms). Views of Neahkahnie Mtn. and the ocean. Elevation 1200 - 2300'. Drive: 26 miles RT (10 RT on steep gravel road; 4W or AW drive required).

8. Lower Onion Peak. Leader: Doug Ray, wetlands ecologist, NCLC. Easy (mix of driving and short walks). Surrounded by private timberland, this site is normally inaccessible to the public. The peak supports forested and riparian areas and seeps and is the only site to see *Filipendula occidentalis*, also *Packera flettii*, *Castilleja chambersii*, *Saxifraga rufidula* (synonym of *Micranthes rufidula*), *Cascadia nuttallii*. Elevation to 2000'. Drive: 40 miles RT (14 on dirt roads); high clearance and fewest possible vehicles required.

9. Tillamook Head - Ecola State Park. Leader: Amy Hutmacher, NCLC ecologist. Moderately strenuous (5 miles RT). Depart from Indian Beach and walk over headland that Lewis & Clark hiked, winter 1806. Coastal forest with old growth *Picea sitchensis*, *Tsuga heterophylla*, epiphytes, shrubby and meadow headlands over sea cliffs. Diverse ferns, sedges, rushes, wildflowers, including *Castilleja affinis* ssp. *litoralis*, *Synthyris reniformis*, *Erythronium revolutum*, *Erigeron glaucus*. Elevation from sea level at Indian Beach to 1000'. Drive: 4 miles RT.

10. Saddle Mountain State Natural Area. Leader: Laurie Choate, Clatsop Community College. Strenuous (5 miles RT, trail steep, difficult in spots). Tallest mountain in the Oregon Coast Range, with diverse habitats: coniferous forests with *Abies amabilis*, *A. grandis*, *A. procera* and *Taxus brevifolia*, riparian zones, seeps, meadows, talus slopes, summit rock garden. High species diversity, endemics (e.g., *Micranthes hitchcockiana*), species at northern (e.g., *Cardamine californica*), southern (e.g., *Geum triflorum* var. *ciliatum*) and western (e.g., *Anemone multifida*) range limits. Elevation 1600' gain to summit at 3288'. Drive: 40 miles RT.

11. Photographic exploration of Saddle Mountain State Natural Area. Leader: Craig Markham, photographer, retired wetland ecologist. See field trip #10. Steep ascent with

photo stops in several different plant communities, ranging through deep forest, basaltic seeps, meadows, exposed outcrops and balds. Assistance with photographic techniques. Bring camera with macro- and wide-angle capabilities. Tripod, remote shutter release and rain protection recommended. Limit 15 participants. View photos by Craig at www.cpmarkham.zenfolio.com.

12. NCLC Habitat Preserves: Circle Creek Swamp, Mill Pond, Neacoxie Creek, Silverspot Meadow, and Necanicum Estuary. Leader: Katie Voelke, NCLC ecologist. Easy (short walks; optional wading, rubber boots recommended). NCLC conserves connectivity of coastal ecosystems. This excursion explores the Necanicum watershed, including restoration of a former dairy farm and naturalized Mill Pond in the upland stream corridor, dune ecology of a remnant coastal prairie, and the confluence of estuarine marsh and forest. Plant communities and species include undisturbed spruce wetland forest alongside newly established forest with *Picea sitchensis*, *Thuja plicata*, *Acer* spp., *Alnus rubra* and shrubs such as *Lonicera involucrata* and *Ribes* spp.; coastal prairie with *Armeria maritima*, *Tanacetum camphoratum*, *Symphyotrichum subspicatum*, *Triteleia hyacinthina*, *Viola adunca* ssp. *adunca*, *Carex pansa*, and *Festuca rubra*; and estuarine marsh with *Cuscuta pacifica*, *Carex lyngbyei*, *Deschampsia cespitosa*. Drive 40 mi RT.

13. Gnat Creek (1/2 day AM). Leader: Tom Horning, geologist. Easy (3 miles RT). Representative lush Coast Range hardwood floodplain forest with *Alnus rubra*, *Acer macrophyllum*, *A. circinatum*, *Salix* spp., waterfalls, and a good diversity of ferns, sedges, rushes, lilies (*Prosartes smithii*, *P. hookeri*, *Maianthemum dilatatum*), ericads (*Gaultheria shallon*, *Menziesia ferruginea*, *Vaccinium* spp.), saxifrages, and roses. Trail passes a fish hatchery with opportunities to feed the fish. Elevation 150-200'. Drive: 88 miles RT. **Alternate meeting site: Gnat Creek Trail parking lot, Hwy 30, 9 am.**

14. Lewis and Clark National Historical Park: South Slough and KwisKwis Trails. Leader: Carla Cole, National Park Service. Easy - moderate (2.5 miles RT, option for longer hike). Ongoing restoration of 44 acres of estuarine wetland habitat for five species of salmon through creation of one mile of new tidal channels. South Slough loop trail starts at Fort Clatsop, travels through timber plantations being actively restored to *Picea sitchensis* rainforests (view effects of Great Coastal Gale of 2007) and encircles a marsh restoration site now supporting *Sagittaria latifolia*, *Typha latifolia*, *Carex lyngbyei* and other emergent marsh species. Kwis Kwis trail (optional: additional 2.5 miles) winds through older Sitka spruce forest in the park. Drive: 48 miles RT.

15. Fort Columbia State Park (Washington): Scarborough Hill, Canyon Creek Loop and Station Camp. Leaders: Jim Sayce, WA State Historical Society, and Bill Garvin, landowner. Moderately strenuous (6 miles one-way; stage cars at both ends). Trail starts at sea level, winds through dense coastal forest to 767'; basalt headlands, conifer forest, riparian areas and seeps; *Delphinium trollifolium*, *Hydrophyllum tenuipes*, *Tellima grandiflora*, and epiphytes. Follow hike with short (5 mile) drive to private property on Baker's Bay to see largest known population of *Sidalcea hendersonii* (not in bloom). Drive: 60 miles RT. **Alternate meeting site: Holiday Inn Express parking lot in Astoria (Hwy 101 & Marine Dr. under the Columbia River bridge), 9 am.**

Sunday Field Trip

Cape Falcon in Oswald West State Park, 9 am - noon. Leader: to be determined. See description in #5 above. Meet at 8:30 am.



Adopt-A-Rare-Taxon (or two, or three...)!!!

In 2014, NPSO will petition the Oregon Department of Agriculture to protect rare plant species that currently are unprotected on state, city, and county lands in Oregon. We will petition to have these species listed as threatened or endangered. The ODA has not reviewed this list in too many years and as a result many species that should be protected are not.

Please help us! There are many plant taxa that need this status. The petition process requires basic ecological information about these species. Below is a list of new taxa to be petitioned – and only some of our target species:

1. *Boechera horizontalis*, Crater Lake rockcress

2. *Castilleja chambersii*, Chamber's paintbrush
3. *Dodecatheon austrofrigidum*, frigid shootingstar
4. *Erigeron stanselliae*, Stansell's daisy
5. *Kalmiopsis fragrans*, North Umpqua Kalmiopsis
6. *Lomatium bentonitum*, bentonite biscuitroot
7. *Lomatium ochocense*, Ochoco lomatium
8. *Lomatium tamanitchii*, ribseed lomatium
9. *Navarretia willamettensis*, Willamette navarretia
10. *Streptanthus glandulosus* ssp. *Josephinensis*, bristly jewelflower
11. *Lasthenia ornduffii*, Large-flowered goldfields

Please adopt rare and currently unprotected taxa!

The more help we have the more species we can petition to be listed as threatened or endangered! If you have information we need about these species, let us know. We will send a template about your chosen species to you with a how-to guide to ensure consistency amongst us.

To take part in this important project, please contact the following Rare and Endangered Plant Committee Members: Cecile Shohet, cshohet@gmail.com and Olivia Duren, olivia-duren@gmail.com. We will send you a full list of target species and you can choose your adoptees.

NPSO Annual Meeting cont'd from page 1
Oregon Islands National Wildlife Refuge). Like Saddle Mountain, the sea stacks formed from lava flows originating in eastern Oregon 10 - 17 million years ago.

In early June, weather along the coast can be sunny and warm, cold and foggy, or windy and rainy. Average June precipitation is 3.1 inches. On our meeting dates (June 6 - 8), the average high temperature is 61° and the low is

48-49°. Dress accordingly!

Friday registration opens at 2 pm in the Surfsand Haystack Garden.

The garden is a perfect setting for socializing with friends. No-host beverages will be available all afternoon, and appetizers will be served from 4 - 6 pm. Dinner is on your own. A field trip to Ecola Creek Forest Reserve will be available to those interested in an afternoon hike.

Saturday field trips are described in this issue of the *Bulletin*. Breakfast is on your own (please note that only a few restaurants in Cannon Beach open as early as 7 am). Late registration will be open from 7:30 - 8 am in the Surfsand Ballroom and box lunches will be available for pick-up. Field trip participants should gather at 8 am in the Surfsand parking lot (parking is also available in the public parking lot on the southeast corner of Hemlock and Gower Streets); trips will depart at 8:30 am and return by 4 pm unless otherwise indicated in the field trip description. Information on alternate meeting places for some field trips will be available on the meeting website.

The Saturday evening banquet will be held in the Surfsand Ballroom. The ballroom will open at 4 pm for socializing and perusing vendor displays. No-host beverages will be

available, and dinner will be served at 6 pm. A short business meeting, including the Fellows' Awards and installation of new officers, will be followed by a brief presentation by Katie Voelke, Executive Director of the North Coast Land Conservancy and the keynote address by ecologist Kathleen Sayce ("Botanizing on Saddle Mountain and the Oregon North Coast").

The Sunday State Board meeting will be held in the Surfsand Haystack Garden from 8:30 am - noon.

A continental breakfast will be served to those attending the meeting. A field trip to Cape Falcon in Oswald West State Park will be available to those interested in a morning hike.

The Annual Meeting is open only to NPSO members. A membership form is available at the back of this Bulletin. *We strongly encourage early registration; if you do not register by June 1, you may not attend the banquet.* Since the northwest coast is an extremely popular vacation destination, we highly recommend that you book your lodging as soon as possible. Students interested in a scholarship should contact Lisa Blackburn at npsoannmtg2014@gmail.com.

The Cheahmill Chapter looks forward to seeing you all at the 2014 meeting on Oregon's beautiful north coast.



Geum triflorum is one of the remarkable wildflowers found near the summit of Saddle Mountain.

CRAIG MARKHAM

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

Address _____

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Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Native Plant Society of Oregon

P.O. Box 80714

Portland, OR 97280

DUES include monthly *Bulletin* and *Kalmiopsis* when published.

Membership is for the calendar year. New memberships enrolled after July 1 include the following year.

☐ New

☐ Renewal

☐ Student – \$12

☐ Regular – \$25

☐ Family – \$35

☐ Sustaining – \$60

☐ Patron – \$125

☐ Life Membership – \$500

☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$25 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____

Leighton Ho Memorial Field Botany Fund \$ _____

Augusta Rockafellar Memorial Scholarship \$ _____

Rare and Endangered Plant Conservation Fund \$ _____

Friends of the Oregon Flora Project \$ _____

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and changes of address (include old address) should be sent to the Membership Chair. Changes of address may also be e-mailed to Membership@NPSOregon.org.

OFFICERS & COMMITTEE CHAIRS

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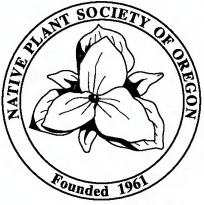
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www.oregonflora.org

Friends of the Oregon Flora Project

This year marks the twentieth anniversary of the Oregon Flora Project. In February 1994, Scott Sundberg made public his intention to prepare a new flora for the state of Oregon. Quoting from the first issue of the *Oregon Flora Newsletter*, he writes: "The ultimate goal of the Oregon Flora Project is to produce an illustrated *Flora of Oregon* in text and electronic forms." We have weathered many challenging days in two decades! However, with the dedicated support of many volunteers and financial donors, we are meeting—even surpassing—our ultimate goal of creating a new flora. In addition to our work on the flora, the OFP has created and maintains a website with an Atlas, Checklist, and Photo Gallery; all have become critical botanical resources for our state.

Many OFP users are surprised to learn that no university or state dollars are, or ever have been, allocated for salaries or the operating expenses of the Oregon Flora Project. This means that the OFP exists and provides its essential information through the generous support of you, the public. It is indeed **YOUR** flora project. The question is: What do you want your flora project to become? What information do you envision accessing through the OFP website? When do you want to see both completed volumes of the paper-bound *Flora* on your desk? Share your vision with the Oregon Flora Project staff, and together we will make it happen!

In our twentieth year of the Oregon Flora Project, we will publish the first volume of the *Flora of Oregon*; we will release a wildflower identification app; we will expand our online Atlas and Photo Gallery. Invest yourself in our efforts and successes, and generously support the OFP to see your vision come to life.

Checks can be made payable to Agricultural Research Foundation, with "OFP" on the memo line. Please note the new address: Agricultural Research Foundation, 1600 SW Western Blvd Ste. 320, Corvallis, OR 97333.



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation and study of Oregon's native plants and habitats

VOLUME 47, NO. 2

MARCH 2014

Habitat Management for the Endangered Willamette Daisy

by Kelsey Copes-Gerbitz, Andrew Heaston, Tobin Weatherson, 2013 IAE/NPSO Interns

For more information about research projects at the Institute for Applied Ecology (IAE), visit their conservation research blog, 'Adventures in Conservation Research', at <http://research.appliedeco.org>. For information on internship opportunities, please contact Sarah Bois at sarah@appliedeco.org, 541-753-3099 ext. 401 or visit www.appliedeco.org.

Introduction

The Willamette daisy (*Erigeron decumbens*) is a federally and state listed endangered species, endemic to the Willamette Valley. Willamette daisy is a short statured, decumbent, herbaceous species, with waxy white-grey leaves and small, purple flowers. Once widespread in grassland and prairie

ecosystems, the species faces threats from disturbance, competition from non-native weeds, habitat degradation, and fragmentation leading to genetic isolation. Remnant populations are often small and isolated, and effective management strategies are not fully understood. Further, the majority of remnant populations (24 of 28) occur on private land, where managers are not required to take action to preserve the species. These populations are expected to be extirpated unless conservation action is taken (U.S. FWS, 2010).

Previous studies conducted by the Institute for Applied Ecology (IAE) in collaboration with the United States Fish and Wildlife Service (USFWS) have tested the effect of various

management techniques on growth and reproduction of Willamette daisy. Starting in 2011, prairie-specific management applications, including the use of prescribed fire, mowing, sheep grazing, carbon addition, grass-specific herbicide, and glyphosate applications were applied in Willamette daisy outplantings throughout the Corvallis and Eugene area. Results thus far have shown that survivorship was generally high in the first year (between 92 and 95%), and varied widely in the second year, ranging from 46 to 90% in controls. Survivorship did not vary significantly by treatment type but rather by site, suggesting that while Willamette daisy can tolerate a wide variety of

continued on page 6



Figure 1: NPSO interns (from the left) Andrew Heaston, Kelsey Copes-Gerbitz, and Tobin Weatherson pose while planting Willamette daisy.

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOregon.org>

E-mail Discussion List

To join, send a message to majordomo@tardigrade.net, with the following in the body of the message: `subscribe nps`

General Business Address

P.O. Box 902
Eugene, OR 97440

or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

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The submission date is the 10th of each month for the following month's issue except for the Aug/Sept issue which is July 24 and the Dec/Jan issue which is November 24. Send submissions by e-mail to bulletin@NPSOregon.org.

Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

NPSO Board Candidates for 2014

The Nominating Committee offers the following list of candidates for state offices. The candidates' brief résumés, along with the ballot, will be printed in the April issue of the *Bulletin*. Any group of five or more dues-paying members may also submit nominations (with nominee's consent). The deadline for the April issue of the *Bulletin* is March 10th.

President: Kelli Van Norman
Vice-President: Billy Don Robinson
Secretary: Lisa Blackburn
Treasurer: Cyndi Dion

Board members at-large:

Linda Hardison
Laura Taylor
Kevin Weitemier



**!! IF YOU HAVEN'T RENEWED YET
FOR 2014, YOUR MEMBERSHIP
WILL LAPSE SOON !!**

Look at the label on this Bulletin and if "2013" appears along the top edge, this is the LAST Bulletin you will receive. If you don't want to miss out on any of this year's *Bulletins*, or *Kalmiopsis*, please send in your dues payment right away!



Kalmiopsis Seeking New Editor

If the experience of being the editor of a classy botany journal is on your bucket list, then you should jump at this chance. Due to unforeseen circumstances, the current editor is unable to continue, so a new editor is needed for the 2015 issue. Although the new editor will no doubt make a number of changes, he/she will find that all the infrastructure is in place for moving ahead seamlessly. There is an experienced editorial board, a typesetter who has done the layout since the first issue, a printer who reliably gives an excellent product at a fair price, and a mail service that adds labels and deals with the bulk mail without a glitch. Information about the editorial responsibilities is on page 7 of the NPSO Board Handbook (www.npsoregon.org/documents/NPSOBoardHandbook.pdf). If you are interested and have some experience in botany and editing, contact Judi Sanders at president@npsoregon.org.

NPSO CALENDAR

State Notes

NPSO Board Meeting

April 19, Saturday, 10 am - 2 pm

The next State board meeting will be in Hood River, sponsored by the Mid-Columbia Chapter. Take some time afterwards to enjoy Blossomfest; for information visit <http://hoodriver.org/events-festivals/chamber-events/blossom-fest>.

NPSO Annual Meeting 2014

June 6 - 8, Friday - Sunday

The 2014 Annual Meeting will be sponsored by the Cheahmill Chapter. Join us for a coastal weekend in and around Cannon Beach. Meeting headquarters will be at Surfsand Resort. The Saturday banquet will include a keynote address by ecologist Kathleen Sayce. Additional information is in the February *Bulletin* and online at www.npsoregon.org/annualmeeting.html.

Blue Mountain

For information on Blue Mountain Chapter call Jerry Baker, 541-566-2244.

Cheahmill

For more information, visit the chapter Web site, www.oregon-nativeplants.com. To be added to the e-mail list for upcoming programs and events, please contact cheahmillchapternpsocomcast.net.

March 27, Thursday, 7 pm

Talk: Ecology and Geology of the NW and its Effect on Miller Woods.

Learn about regional ecology in the context of a wonderful, local conservation area. James Riedman, property manager of the Yamhill Soil and Water Conservation District's Miller Woods, will present on the landscape of the NW with special attention to the natural beauty of Miller Woods. Doors open at 6:45 pm for socializing. Meeting/Program starts at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Hwy 99W and SW 2nd St.). Park-

ing lot entrances on Adams and 2nd Streets. For more information contact: Luke Westphal, 971-388-9200 or lukewestphal@gmail.com.

Corvallis

For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Kevin Weitemier at co_president@NPSOregon.org or

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. **BRING WATER AND LUNCH.** Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. A sample waiver form is available at http://npsoregon.org/documents/NPSO_waiver.pdf. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Dogs are not allowed. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. You must pre-register for all events. National Forests require a Northwest Forest Pass for some field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12. A trip leader checklist and sample waiver form are available at: <http://npsoregon.org/calendar.html>

208-921-0827.

March 10, Monday, 7:30 pm

Talk: Know Your Enemies: Invasives in Benton County. Crystal Durbecq and Heath Keirstead of Benton Soil & Water Conservation District will discuss identification and control of invasive plants of concern in Benton County (and some that haven't arrived yet). They will also share information on which ones to report and how to report them! Location: Avery House in Avery Park. Contact Kevin, 208-921-0827, for more information.

March 22, Saturday, 8 am - 3:30 pm

NPSO Table: Insights into Gardening. *This event was rescheduled from February, due to snow.* Corvallis NPSO will be staffing a table at Insights into Gardening, a day-long seminar offering practical, hands-on learning for home gardeners and gardeners-to-be. You will find plenty of ideas to make your gardening easier, more enjoyable, and more successful. Raffles, exhibits, and books for sale by Grass Roots will be available. Pre-registration is \$30, \$35 at the door. Information: www.extension.oregonstate.edu/benton/insights.

April 14, Monday, 7:30 pm

Talk: Ecology of Mangrove Swamps around the World. Dr. Boone Kauffman is our speaker for April. Location: Avery House in Avery Park. Contact Kevin, 208-921-0827, for more information.

Emerald

Visit the Emerald Chapter Web site at <http://emerald.npsoregon.org> to learn more about the latest chapter events, plant lists & botanical information about Lane County plants & the people who love them.

Meeting location: Conference Room at Lane County Mental Health, 2411 Martin Luther King Blvd. Turn off MLK Blvd. onto Scout Access Rd. across from Autzen and take the first left into the parking lot. The meeting room is on the right side as you face the

building.

March 20, Thursday, 7:30 pm

Meeting/Talk: The Delta Ponds Habitat Enhancement Project. Lauri Holts, a natural resources coordinator with Eugene's Parks and Open Space Division, gives a presentation on this project, completed in 2012 to provide critical rearing habitat for juvenile Chinook salmon. The presentation will include a brief overview of the historic and pre-project conditions and will describe the City's efforts to establish a diverse native plant community and control invasive species, including the most recent invader, the aquatic Uruguayan primrose-willow (*Ludwigia hexapetala*). Location: Conference Room at Lane County Mental Health, see above for directions. For more information, call 541-349-9999.

April 17, Thursday, 7:30 pm

Meeting/Talk: Growing More than Plants at the Friends of Buford Park Nursery. Jason Blazar gives a presentation on the purpose, scope, and scale of native plant material production in the Mt. Pisgah area. Jason has been the stewardship coordinator of Friends of Buford Park (FBP) since November 1999. His talk includes context within the FBP stewardship program, purpose, scale, production, marketing, ethnobotanical projects, educational opportunities, and an opportunity for the NPSO Emerald Chapter to consider partnering to develop a pollinator demonstration garden at the nursery. Location: Conference Room at Lane County Mental Health, see above for directions. For more information call 541-344-8377.

High Desert

For information, visit the High Desert Chapter website: www.highdesertnpsoregon.org and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email highdesertnps@gmail.com.

March 11, Tuesday, 6:30 - 8 pm

Program: Spring Meeting. Join us to discuss 2014 field trips and other activities. Light refreshments will be served. Location: Brooks Room at the Bend Downtown Library, 601 NW Wall St.

April 26-27, Saturday-Sunday

Field Trip: Glide Wildflower Show.

We will visit the Glide Wildflower Show and botanize on the west side of the Cascades, with an overnight campout on the 26th. If interested in camping, contact Susan Berger at suzyfishn@gmail.com.

June 20-21, Friday-Saturday

Event: Central Oregon Wildflower Show. The High Desert Chapter is working on this wildflower show, to be held at the Sunriver Nature Center (www.sunrivernaturecenter.org). Volunteers will be needed to "harvest" specimens, help ID, and be on hand to answer questions during the two-day show. To help, please contact chapter vice president Susan Berger at suzyfishn@gmail.com.

Klamath Basin

This chapter has recently become active. For information, visit the Klamath Basin Chapter website: <http://klamathbasinnps.com> or contact the chapter president, Melissa Schroeder meljschroeder@gmail.com.

Meeting location: All meetings are held in the Dow Center for Health Professions (DOW) 251 on the Oregon Institute of Technology campus. See chapter website for a map. Free parking is available in the visitor parking lot, which is just on the South side of the street from the DOW building.

March 6, Thursday, 6:30 pm

Meeting/Talk: BOPU: What's that?

Missy Anderson, a botanist with the Fremont-Winema National Forest will lead a talk on *Botrychium pumicola*, pumice grapefern. *B. pumicola* is a rare and unique fern in the family *Ophioglossaceae* that is endemic to Central Oregon. Come and learn some interesting facts about the ecology and management of this rare plant! Chapter meeting will follow the presentation. Location: Oregon Institute of Technology, DOW 251, see above for more information.

April 3, Thursday, 6:30 pm

Meeting/Talk: Decline of the

Bellinger's woolly meadowfoam. Johanna Blanchard, BLM botanist with the Klamath Falls Resource area, will lead a talk on *Limnanthes floccosa* ssp. *bellingeriana*, Bellinger's woolly meadowfoam. This small annual herb is known from only a few populations in Southern Oregon and Northern California. Johanna will discuss the ecology of the species, including habitat, plant associations, and how to distinguish it from other co-occurring meadowfoam species. Additionally, she will talk about the species decline, its major threats, and the upcoming monitoring plan for the season. Location: Oregon Institute of Technology, DOW 251, see above for more information.

Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at wusara96@yahoo.com.

March 20, Thursday, 7 pm

Program/Meeting: The Oregon Biodiversity Information Center (ORBIC). ORBIC has been the steward of information regarding the locations and statuses of rare species in Oregon for over 30 years. Lindsey Wise, biodiversity data manager, will provide an overview of the program and its value, and will show examples of records for rare plants found in the Gorge. She will also discuss how NPSO members and others can help maintain and update this important resource. Location: Room 1.366, Columbia Gorge Community College, The Dalles.

April 17, Thursday, 7 pm

Program/Meeting: Early Detection and Rapid Response to the Worst Weeds of the Columbia Gorge. Cyndi Soliz, partnership specialist, Skamania County Noxious Weed Program and vice-president of the Cape Horn Conservancy, will provide an introduction to the "Worst Weeds of the Gorge" as designated by the Columbia Gorge Cooperative Weed Management Area (CGCWMA). The CGCWMA consists of 25 land management organizations that coordinate activities

to address invasive weeds across their jurisdictions within the Gorge. Their approach promotes Early-Detection-Rapid-Response (EDRR) strategies, with an emphasis on prevention. Location: Room 1.366, Columbia Gorge Community College, The Dalles.

Portland

If you would like to receive the chapter's semi-official e-mail newsletter, The Calochortus, e-mail Don Jacobson at donjphoto@gmail.com.

Facebook: Take a look at our Facebook page. Native Plant Society of Oregon-Portland-Chapter. It will have the most up-to-date information on hike and other events as well as great plant pictures.

Meeting location: The Portland Chapter meets the second Thursday of most months in the Metro Building at 600 NE Grand Ave., Portland. Enter from NE Irving St. on the north side of the building and walk across the upper plaza to the entrance (not the door on 600 NE Grand Ave.). An attendant will let you in and direct you to the meeting room upstairs. Meetings and programs begin at 7 pm.

March 13, Thursday, 7 pm

Program: Conserving Oregon's Environment: Breakthroughs That Made History. Past Sierra Club Director Michael McCloskey will discuss his new book, *Conserving Oregon's Environment*, with a slide show. He will tell the story of some 80 accomplishments to advance conservation in Oregon, including Oregon's Endangered Species Act, on which Oregon's Native Plant Society took the lead, and explains why Oregon is seen as a national leader. He will be selling and signing copies of his book. Meeting location: Metro Building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

March 18, Tuesday, 8:30 am - 4:30 pm

Field Trip: Catherine Creek. The premiere early flower spot in the Gorge is where we will search for grass widows, yellow bells, prairie stars, toothworts,

several desert parsleys, early glacier lilies, and others. Moderate walking to 5 miles with 800 ft. elevation gain. Drive is 120 miles round trip. For more information contact Angie Moore at 503 292 2093 or MLM@teleport.com.

March 28, Friday, noon - 2 pm

Field Trip: Hoyt Arboretum, Conifer Hike. Join Hoyt Arboretum Curator Martin Nicholson for a 2 mile hike through the arboretum's conifer collection to hone your NW conifer identification skills. From Douglas fir to Brewers spruce the Hoyt collection has an almost complete set of the conifers that we see hiking through our natural areas. Location: Hoyt Arboretum Visitor Center, 4000 SW Fairview Blvd., accessible by MAX using the Washington Park Stop or Trimet Bus #63. For more information contact Martin Nicholson at martin.nicholson@portlandoregon.gov.

April 8, Tuesday, 9 am

Field Trip: McCord Creek. Early flowers at McCord Creek include *Synthyris*, *Douglasia*, and *Oemlaria*. This is an easy hike of about 3 miles round trip with 500 feet elevation gain. Driving is about 60 miles round trip. Be ready to leave at 9 am; call leaders for meeting location: Jan and Dave Dobak, 503-248-9242.

April 10, Thursday, 7 pm

Program: Getting Close to Our Native Ferns. Dr. David Wagner's talk will emphasize looking at our native ferns with a fresh eye using some of the newer tools of technology. He has been using his compound microscope, LED lights, digital camera, and stacking software to make beautiful, close-up pictures of some of the smaller parts of ferns, both outside and inside. Meeting location: Metro Building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

April 12, Saturday, 2-4 pm

Field Trip: Nob Hill Nature Park. Join us in St. Helens for an easy stroll to view Trillium and fawn lily in an area currently undergoing restoration. Location: Meet at the city of St. Helens' wastewater treatment facility across

from the park. A plant list is available by calling trip leader, Caroline Skinner, at 503-248-9719.

Save the Dates!

May 3, Saturday, 10 am - 3 pm

Field Class: *Penstemon* Keying Workshop. This workshop will be held at the home of the instructor. For more information or to sign up for the class, contact Nancy Chapman at chapmannj@comcast.net.

May 10 and 17, Saturdays, 8:30 am - 4 pm

Field Class: Learn to Use a Botanical Key. This two-day class at Tryon Creek State Park will be taught by Brent Miller. For more information or to sign up for the class, contact Nancy Chapman at chapmannj@comcast.net.

Siskiyou

To join the Siskiyou Chapter email list: Send an email, from the address at which you want to receive announcements, to announce-join@siskiyou.npsoregon.org. No subject or message is required. You will get a confirmation email. If you would like to volunteer to lead a hike in 2014, make a suggestion, or provide feedback regarding the field trip program please contact Sasha Joachims at: sasharain71@gmail.com.

March 13, Thursday, 4:30 - 6:30 pm

Workshop: Exploring Oregon's Native Plants. Presented by Bear Creek Watershed Education Partners and the Siskiyou Chapter of the Native Plant Society, this workshop is open to classroom teachers, informal educators, and anyone interested in sharing native plants with students. Stacy Moore of the Institute for Applied Ecology will present hands-on lessons to help your students explore native plants. She will share activities from the curriculum, *From Salmonberry to Sagebrush: Exploring Oregon's Native Plants*. Location: Rogue River Elementary School. Contact: Rebecca at 541-708-2104.

March 20, Thursday, 7 pm

Program: Poseidon to Zeus...a Geobotanical Romp from Low Tide to

the Summit of Saddle Mountain.

Local author, geologist, and naturalist Don Begnoche will lead us on a virtual romp exploring the area around Cannon Beach. This talk will also be a great introduction for folks attending the NPSO Annual Meeting this year. Location: Southern Oregon University, Science Building, Room 171. Refreshments at 6:45 pm, meeting and program at 7 pm. Contact: Kristi: 541-941-3744.

Umpqua Valley

Visit www.umpquavalleynativeplants.com for more information on chapter activities or to be added to our e-mail list.

Willamette Valley

For program information, contact John Savage at 503-399-8615 or Alexandra Ninneman at 503-391-4145.

March 20, Thursday, 7 pm

Program: Naturescaping. Learn how to get started on your native landscape with Gail Gredler, horticulture instructor at Chemeketa Community College.

Willamette Daisy cont'd from page 1

management treatments, high quality habitat is needed for the greatest success in out-planting (Giles-Johnson, D.E.L. 2012). Further monitoring may reveal long-term trends not apparent in the first two years of growth after out-planting.

In 2013, we applied four experimental treatments in an effort to assess the effects of out-planting treatments on Willamette daisy establishment and long-term success. These treatments included non-native vegetation removal, topical mulch applications, a combination of vegetation removal and mulch application, and a control. Our experiment sought to determine planting methods that increase survivorship and give transplanted daisies an initial competitive advantage over invasive species. Our experiment was conducted at Field 8N at Finley National Wildlife Refuge, where the primary source of competition is the non-native false dandelion (*Hypochaeris radicata*), a mat-forming forb.

She will define "native plants," discuss their benefits and uses, explain which plants are suitable for home landscapes and where to purchase them. Details for a Saturday, March 22 field trip will be announced in class. Location: The Straub Environmental Learning Center, 1320 A Street NE, next to Olinger Pool and near North Salem High School. Cost: \$5 per person for the class; \$10 per person for the field trip. Registration is required; contact Michelle Cordova at 503-391-4145, or michelle@fslc.org.

March 27, Thursday, 7 pm

Program: Wilderness Act at 50. Come celebrate the 50th anniversary of the Wilderness Act with Bridget Callahan, wilderness campaign organizer for Oregon Wild. Celebrate past victories, explore the value of wilderness, and identify present and future obstacles to expand Oregon's wilderness. Callahan will highlight the botanical treasures of the Kalmiopsis Wilderness, an area that is host to the State's highest concentration of rare plants, but is currently threatened by logging, mining,

Methods

In January 2013, 240 Willamette daisy plants were propagated in the OSU greenhouses. In April 2013, individuals were planted one meter apart in a 30 m x 8 m grid at Finley National Wildlife Refuge. Individuals were randomly assigned one of four



Figure 2: A Willamette daisy transplant

and illegal motorized vehicles. Free and open to the public. Location: The Straub Environmental Learning Center, 1320 A Street NE, next to Olinger Pool and near North Salem High School.

April 4-5, Friday-Saturday, 10 am - 3 pm

Program: Erythronium Native Plant Festival and Sale. Celebrate the earth's reawakening and the exquisitely beautiful *Erythronium oregonum* (native lilies) blooming at Historic Deepwood Estate. Purchase a few native plants for your own garden, take a guided nature walk led by members of NPSO, or just come to enjoy a day outside and the special exhibits and informational booths. Location: 1116 Mission St. SE (12th and Mission) in Salem. Free parking is available off Lee St. For more information, call 503-363-1825 or visit www.HistoricDeepwoodEstate.org.

William Cusick

Visit our Web site at <http://williamcusick.npsoregon.org> or contact Laurie Allen at 541-805-0499 for updates and general information.

planting treatments, for a total of 60 plants of each treatment: 1. control (no treatment), 2. non-native species removal in a 10 cm radius, 3. non-native species removal in 10 cm radius and mulch additions, and 4. addition of mulch alone. After planting, each plant was watered twice. Monitoring for survivorship took place at the end of June 2013. We measured presence or absence of each individual, the number of capitula (flowering heads), length of longest diameter, width of shortest diameter, and height of tallest leaf. Presence and absence was used to determine survivorship, while the size measurements enable us to look at the fitness of the individuals. We also collected soil moisture data in a subsample of the experimental plantings in an effort to determine how the treatments may have affected the soil microclimate.

Given that this experiment was part of a larger out-planting of Willamette daisy, we were also able to

continued on page 7

Willamette Daisy cont'd from page 6

compare the outcome of our experiment to survivorship data from 2011 and 2013 daisy out-plantings at the same site.

Results

Average survivorship for all out-planting treatments was 92% (ranging from 88-96%). Meanwhile, survivorship at the neighboring Willamette daisy plots from 2013 averaged 93.5% survival. Individuals planted in 2011 had survivorship of 94.6% in the first year, and of those, 78.9% survived to the second year. Removing non-native vegetation without mulching tended to produce a larger size (62.2 cm², +/- 9 cm²) than all other treatments; average size for control was 40.8 cm² (+/- 5 cm²), mulch was 44.9 cm² (+/- 6 cm²) and vegetation removal and mulch was 31.5 cm² (+/- 4 cm²). Vegetation removal yielded average soil moisture of 9.5% volumetric water content (VWC), lower than that of all other treatments (10.5-11.5% VWC).

Discussion

These results are consistent with the hypothesis that removing competition leads to more robust plants. Our results indicate that direct vegetation

removal was effective in increasing the fitness of the young transplants, likely due to the resulting reduction in non-native competition. All other treatments show no significant effect on individual fitness. None of the treatments show any significant effect on the first year survivorship of the seedlings. Average survivorship at the site was comparable to that seen in the 2012 plantings at that site and the first year survival of the 2011 planting at that site.

Though it was hypothesized that the mulching treatments would decrease competition, thereby increasing survival and fitness, we saw no significant results from this treatment. Mulching is commonly used to increase soil moisture retention and reduce weed competition. In the case of our experiment, it is possible that the amount and type of mulch we used was ineffective, and that other mulching methods may increase soil moisture and reduce weed competition. Further experiments testing a variety of mulching protocols may prove useful in developing more effective Willamette daisy out-planting methods. Alternately, follow-up monitoring may show that in the long term, greater

differences emerge in soil moisture retention and weed competition that lead to more robust, reproductively successful plants.

Previous studies indicate that second year survivorship is a better indicator of the significance of the effect of an outplanting treatment and thereby the likelihood of establishing a reproductive population. With this in mind, it is possible that in 2014, our treatments will express varied survival rates and thus allow a clearer picture of the long term effects of our treatments. We look forward to additional data collection.

References

Giles-Johnson, D.E.L. 2012. Demography and Management of Willamette Daisy. 2012 Progress Report. Prepared by Institute for Applied Ecology for US Fish and Wildlife Service; Corvallis, Oregon. v + 33 pp.

U.S Fish and Wildlife Service. 2010. Recovery Plan for the Prairie Species of Western Oregon and Southwestern Washington. U.S. Fish and Wildlife Service, Portland, Oregon. Xi+ 241 pp.

February 2014 State Board Meeting Highlights

The Board is delighted to welcome the reactivation of the Klamath Basin Chapter and approved the chapter's by-laws with one minor meeting procedure amendment.

Committee reports: Membership renewals are running slightly ahead of last year. The Fellows committee identified newly nominated fellows as Jim Duncan, Cindy Roché, and Bruce Newhouse and all were approved. Cyndi Dion went over the 2013 income and expenses. In addition to the usual income (membership dues, etc.), there was net income of about \$900 from the Eastern Oregon Flora Workshop led by Lucile Housley. The Board approved creation of a restricted fund for workshop proceeds to be used as seed money for future workshops. Thanks to Nancy Chapman, the Shep Wilson book sale also netted about \$900. EarthShare Oregon donations were

about \$200 lower than in 2012. The 2014 budget was approved.

Linda Hardison gave an update on the Oregon Flora Project. For their 20th anniversary, they are publishing the first volume of Flora of Oregon and planning a large fundraising event. They will also release a wildflower app and are working with Master Gardeners and Soil & Water Conservation Districts to raise awareness about using native plants in landscaping and gardens. In addition, they are enacting a citizen science data gathering project.

Kalmiopsis needs a new editor. Various options were discussed and it was ultimately decided to try to broadcast the need more widely to secure an editor. The 2014 issue will be published by the editorial board, graciously led by Cindy Roché. Mary Beth Averill and Cecile Shohet presented some results from the Growing NPSO survey. Many

responses noted the importance of education and conservation along with advocacy. A report will be available once the data are more fully analyzed. The Oregon Invasive Species Council is holding a state-wide poster contest for high school students. The Board agreed to give complimentary NPSO memberships to the winners.

On conservation matters, several actions were approved: request a status report from and continued funding of ODA's Rare Plant program; send a letter to the Idaho BLM to protest fuel break seeding with invasive *Kochia prostrata*; join Oregon Wild's petition to put silvery phacelia on the endangered species list; and sign on to a letter urging Congressional action to prevent mining in the Greater Red Flat area.

The next board meeting will be April 19 in Hood River, hosted by the Mid-Columbia Chapter.

Annual Meeting Student Stipends and Scholarships

The state level of NPSO is offering three stipends of up to \$200 each to college undergraduate or graduate students to attend the 2014 NPSO Annual Meeting in Cannon Beach. We want to encourage more students to be active in NPSO, so we are offering the stipends to help defray some expenses for travel, lodging, food and banquet, membership, and registration. In return, NPSO suggests that each student who receives a stipend write a

short article (about 250-300 words), describing some aspect of the meeting such as the field trip you participated in or the evening presentations, for the *Bulletin*. To apply, please request a copy of the Stipend Application directly from Mary Beth Averill, writeonmba@aol.com. Make sure to indicate NPSO Annual Meeting Stipend in the subject line of your email. Deadline for submitting your stipend application to writeonmba@aol.com by email is May

1, 2014.

In addition to the stipends, four Annual Meeting scholarships covering membership, registration and the banquet are available from the Cheahmill Chapter of NPSO, via a separate application. All interested students are eligible. For information about these scholarships, please contact Lisa Blackburn, npsoannmtg2014@gmail.com.

Willamette Chapter Scholarship Announcement

STUDENTS TAKE NOTE

The Willamette Valley Chapter will once again be offering two scholarships for 3rd and 4th year students who will be enrolling in plant systematics or plant ecology at any Oregon college or university for the 2014-2015 school year. Two qualified applicants will be selected to receive \$1,000 from either the Augusta Rockefeller Memorial Scholarship Fund or the Jean Davis Memorial Scholarship Fund. Applications will be accepted by mail until June 1, 2014. Don't let this opportunity pass you by!

Rules for Scholarship Awards

1. Scholarships are available to students in Oregon colleges, planning their major study in plant systematics or plant ecology.

2. Scholarships are awarded in the amount of \$1,000 to worthy students who will complete at least two years of satisfactory college work by July 1 of the year of receipt of application and are full time students. Graduate students may be eligible if they meet all qualifications except that of full time student.

3. Awards are made in the following manner:

a) A certificate is presented to the recipient.

b) A check in the amount of the award is submitted to the school of choice, as set forth in rule 1, to be used toward tuition within the following academic year.

4. If an award recipient fails to enroll, changes his or her major, or leaves the school before completing the period for which the award was granted, the full amount or unused part of the money shall be returned to the Memorial Scholarship Fund.

5. Applicants are required to submit:

a) In their own words, a statement of academic and career intent.

b) Two letters of reference from persons able to judge the student's ability to successfully complete study in

the area of plant systematics or plant ecology.

c) Full academic record (transcript).

6. The Scholarship Committee Chair must receive all applications, together with items listed in rule 5, no later than June 1. The award will be made by July 1.

7. Scholarships cannot be granted to Scholarship Committee members or their relatives.

Please mail applications and the required documentation to:

Thomas Jenkins
Scholarship Committee Chairman
14380 Salt Creek Rd.
Dallas, OR 97338

NPSO Fellows Awards for 2014

by the NPSO Fellows Committee

NPSO's highest award is that of Fellow of the Native Plant Society of Oregon. Since NPSO first established the award in 1998, 25 members of our Society have received this honor with a ceremony and a special plaque presented at the Annual Meeting. We are pleased to announce that our next honorees are Cindy Roché, Jim Duncan, and Bruce Newhouse.

Cindy Roché has been active in her Siskiyou Chapter and has been editor of *Kalmiopsis* for many years. Jim Duncan has served both his Siskiyou Chapter and the State organization for years in many ways. Bruce Newhouse has served on the State Board as President and has been very active in his Emerald Chapter and with the Oregon Flora Project.

Look for more detailed articles about Cindy, Jim, and Bruce in the upcoming *Kalmiopsis*.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

Address _____

City _____ State _____ Zip+4 _____

Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Native Plant Society of Oregon

P.O. Box 80714

Portland, OR 97280

DUES include monthly *Bulletin* and *Kalmiopsis* when published.

Membership is for the calendar year. New memberships enrolled after July 1 include the following year.

☐ New

☐ Renewal

☐ Student – \$12

☐ Regular – \$25

☐ Family – \$35

☐ Sustaining – \$60

☐ Patron – \$125

☐ Life Membership – \$500

☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$25 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____

Leighton Ho Memorial Field Botany Fund \$ _____

Augusta Rockafellar Memorial Scholarship \$ _____

Rare and Endangered Plant Conservation Fund \$ _____

Friends of the Oregon Flora Project \$ _____

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and changes of address (include old address) should be sent to the Membership Chair. Changes of address may also be e-mailed to Membership@NPSOregon.org.

OFFICERS & COMMITTEE CHAIRS

STATE OFFICERS

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 PRESIDENT Judi Sanders president@NPSOregon.org
 IMMEDIATE PAST PRESIDENT..... David Lebo past_president@NPSOregon.org; 503-622-2008
 VICE PRESIDENT Billy Don Robinson bdmeme@gmail.com; 503-515-1708
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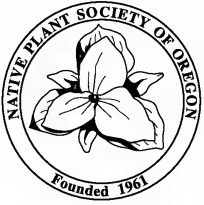
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Matt Morales, Membership Chair
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Friends of the Oregon Flora Project

There is still time to contribute to our Challenge Fundraising Drive!

March 15 is the cutoff date for donations to be considered for the matching of a \$20,000 challenge. The exciting news is that we have surpassed that goal—as of mid-February we have received \$28,655 in donations! The message I find behind this generosity is twofold: people value the work being done by the Oregon Flora Project, and they recognize the OFP is a collaborative, grassroots program with both scientific content and financial resources coming from the public. The accomplishments that are made when our Flora Project team (that includes YOU!) pulls together are significant. The work we do together meets the pressing needs for accurate and meaningful botanical information in our state.

Your financial support is making these new features available this spring:

- We will be adding a new page to our website with information about gardening with native plants. Another part of our initiative to raise awareness of the OFP among gardeners is providing tags to Master Gardener and Soil & Water Conservation District plant sales that will identify plants as a “verified native species.”
- Our wildflower identification app for iOS and Android devices will be available in time for field season! We have partnered with High Country Apps to create this beautiful, user-friendly guide that covers 950 species across Oregon. Look for availability information on our website.
- Version 1.4 of the Checklist will be electronically published in March. This is the fundamental science that supports the exciting outreach tools described above.

Please use these last weeks of our challenge drive to bring contributions to a record level. The work you fund at OFP is meaningful: it is needed, and it reflects the personal commitment each donor has to value our precious natural resources. Checks can be made payable to Agricultural Research Foundation, with “OFP” on the memo line. Please note the new address: Agricultural Research Foundation, 1600 SW Western Blvd Ste. 320, Corvallis, OR 97333.



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation and study of Oregon's native plants and habitats

VOLUME 47, NO. 3

APRIL 2014

The Results Are Out – NPSO's Response to the Survey!

by Mary Beth Averill, Cecile Shohet, and Erin Gray

The Native Plant Society of Oregon Development Committee recently created a survey to better understand the needs of NPSO members, and to help guide future directions for our organization. We were delighted by the thoughtful responses from members all over the state. In total, 205 individuals put time into participating, and the results are a very powerful representation of NPSO as a whole: a dynamic, interactive, dedicated group of individuals who truly care about the conservation of native plants and are devoted to education for the future. We have summarized the results below.

Who responded?

Twenty-three percent of the NPSO membership responded to this survey (196 responses were analyzed; 205 with late responses)! Of those, 20% belonged to the Corvallis chapter; 17% to the Portland chapter; 15% to the Emerald chapter; 11% to the Siskiyou chapter; and 5% or less each to the Cheahmill, High Desert, Klamath, Mid-Columbia, Umpqua Valley, and William Cusick chapters. Seven percent said they were not affiliated with a chapter, and nine percent said they were not members (151 responses).

People in the 50-59, 60-69, and 70 and older age groups each made up 23%, or together 46% of the respondents. Those in the 40-49 age group accounted for 10%; the 30-39 age group, for 18%, and the 20-29 age group, for 3% (154 responses).

When we asked how long respondents had been involved in NPSO, 25% replied for 1-5 years; 23% for 10-20 years; 20% more than 20 years; 17% for 6-10 years; and 15% less than a year (145 responses).

In terms of profession, whether employee or retiree, 44% indicated that they were professional botanists, biologists, or ecologists. Educators accounted for 13% of the respondents. Other professionals made up 13%; non-professionals were 17%; and people who just wrote retired accounted for 14%. (148 respondents).

Respondents' participation in NPSO

We gave respondents a list of choices

of **how they currently participate in NPSO**, choosing as many categories as they wanted. Chapter meetings had a response of 56% and chapter outings or field trips, 54%. Thirty-one percent of respondents said they attend the annual meeting; educational and botanical workshops, 23%; plant sales, Native Plant Appreciation Week, and plant shows, 18% each. Twelve percent said they participated in chapter work days; 10% in Citizen's Rare Plant Watch outings; and 8% in state board meetings. Twenty-four percent checked "other" and wrote in responses, including: read *Bulletin* and other NPSO materials, write news articles or other NPSO materials, liaison with other related organizations, use NPSO website or list serve, serve on NPSO committees and

continued on page 8



© TANYA HARVEY COURTESY OF OREGON FLORA PROJECT

Lucky hikers may see Paeonia brownii at the Baker Cypress grove in the Klamath Mountains on May 10.

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOoregon.org>

E-mail Discussion List

To join, send a message to majordomo@tardigrade.net, with the following in the body of the message: `subscribe npsos`

General Business Address

P.O. Box 902
Eugene, OR 97440
or correspond directly with Officers
and Committee Chairs listed on the
inside of the back page.

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Opinions expressed in this publica-
tion are those of the authors of the
articles. They do not represent the
opinions of the Native Plant Society
of Oregon, unless so stated.

Candidates for NPSO Board Positions

The NPSO Nominating Committee offers the following list of candidates for the State Board Offices. **Ballots must be returned to the Ballot Counting Committee postmarked by May 1, 2014.** Newly elected individuals assume office during the Annual Meeting.

President:

Kelli Van Norman (Portland) grew up in the mountains of southwestern Oregon hiking and learning the native flora through 4-H Forestry. She enjoys botanizing throughout the Pacific Northwest. Kelli earned a B.S. in Geography from the University of Oregon and an M.S. in Forest Science from Oregon State University. Since 2004 she has been working throughout Oregon and Washington for the Bureau of Land Management (BLM) and Region 6 Forest Service as the inventory coordinator for the Interagency Special Status/Sensitive Species program, which focuses on several hundred vascular plant species as well as numerous lichens, bryophytes, fungi, vertebrates and invertebrates. Kelli has previously served on the NPSO State Board as Secretary, President, and Immediate Past President.

Vice-President:

Billy Don Robinson (Portland) was born and raised in Texas and came to Oregon from Austin, Texas, in 1971. In addition to the Pacific Northwest flora and fauna, he enjoys hiking and camping, swimming, and sketching. Currently NPSO Legislative Committee Chair, he will work with NPSO's State Board to build a larger membership base and thwart threats to our native flora. He is particularly interested in expanding NPSO's 18- to 28-year-old membership demographic: "Our society's mission of ensuring Oregon's legacy of native plants for future generations can be enhanced by vigorously recruiting people who will be active for the next fifty-plus years."

Secretary:

Lisa Blackburn (Cheahmill) was born and raised in southern California. She graduated with a B.S. in Renewable Natural Resources and an M.S. in Range Management from the University of California at Davis. Lisa moved to Oregon in 1977. She worked for the Forest Service and BLM for 31 years, retiring in 2007 from the BLM Oregon State Office in Portland. Her interest in plants and geology started during childhood through family camping vacations all over the western United States. She originally became the incumbent by volunteering at an Annual Meeting to fill the void left when David Barts moved out of state. Lisa recently served as President of the Cheahmill Chapter.

Treasurer:

Cyndi Dion (Siskiyou) has served as the NPSO State Treasurer for the last seven years. Two years ago, she retired from the Oregon Shakespeare Festival (also a non-profit) after thirteen years as the business and accounting manager. Prior to that she was the accounting manager for Jefferson Public Radio and had her own bookkeeping/accounting business for fourteen years, keeping books for many small businesses and non-profits in the southern Oregon area. She previously served on the Board of Southern Oregon Land Conservancy as Treasurer, and the Southern Oregon Child Study and Treatment Center as a board member. Currently she spends her time trekking through the southern Oregon area and beyond trying to remember her botany from her years of study at Southern Oregon University in the eighties.

Directors-at-large:

Linda Hardison (Corvallis) grew up in Texas and moved to the Pacific
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NPSO CALENDAR

State Notes

NPSO Board Meeting

April 19, Saturday, 10 am - 2 pm

The next State board meeting will be in Hood River, sponsored by the Mid-Columbia Chapter. Take some time afterwards to enjoy Blossomfest; for information visit <http://hoodriver.org/events-festivals/chamber-events/blossom-fest>.

NPSO Annual Meeting 2014

June 6 - 8, Friday - Sunday

The 2014 Annual Meeting will be sponsored by the Cheahmill Chapter. Join us for a coastal weekend in and around Cannon Beach. Meeting headquarters will be at Surfsand Resort. The Saturday banquet will include a keynote address by ecologist Kathleen Sayce. Additional information is in the February *Bulletin* and online at www.npsoregon.org/annualmeeting.html. **Please register by May 1.**

Blue Mountain

For information on Blue Mountain Chapter call Jerry Baker, 541-566-2244.

April 16, Wednesday, 7 pm

Meeting: Chapter Rebirth and Future Plans. All are invited to a planning meeting and celebration of the rebirth of the Blue Mountain Chapter. Snack food will be provided. Slides shown. Memories shared...Jerry Baker, Olin Anderson, Bruce Barnes. Location: meet in the theater room at the Prodigal Son Brewery & Pub, SE 3rd & Court, Pendleton. Information: 541-276-5547.

April 26, Saturday, 9 am

Field Trip: McNary Wildflowers.

Join us to carpool to the McNary area for great early spring flowers. Location: meet in the NE corner of Safeway parking lot (near traffic light), Pendleton. Trip leaders: Jerry & Bruce.

Cheahmill

For more information, visit the chapter Web site, www.oregon-nativeplants.com. To be added to the e-mail list for upcoming programs and events, please contact cheahmillchapternpsoc@comcast.net.

April 24, Thursday, 7 pm

Talk: Paleoethnobotany at Rimrock Draw Rockshelter. Join us for a talk by Dr. Marge Hezler of Lane Community College on her paleoethnobotany

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. **BRING WATER AND LUNCH.** Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. A sample waiver form is available at http://npsoregon.org/documents/NPSO_waiver.pdf. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Dogs are not allowed. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. You must pre-register for all events. National Forests require a Northwest Forest Pass for some field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12. A trip leader checklist and sample waiver form are available at: <http://npsoregon.org/calendar.html>

studies at a Pleistocene-age archaeological site located in eastern Oregon. This presentation will focus on how charred wood, seeds, and other plant remains collected from the site provide insight into ancient human diets and climatic conditions of the past. Doors open at 6:45 pm for socializing, meeting/program starts at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Hwy 99W and SW 2nd St.) Parking lot entrances on Adams and 2nd Streets. Contact: Luke Westphal, 971-388-9200 or lukeowestphal@gmail.com.

Corvallis

For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Kevin Weitemier at co_president@NPSOregon.org or 208-921-0827.

April 14, Monday, 7:30 pm

Talk: Ecology of Mangrove Swamps around the World. Dr. Boone Kauffman is our speaker for April. Location: Avery House in Avery Park. Contact Kevin, 208-921-0827, for more information.

April 22, Tuesday, 11 am - 3 pm

Community Fair: OSU Earth Week. Stop by the NPSO table at the Community Fair. NPSO will be offering ideas about native plants for the garden to replace non-natives that can become invasive. Location: OSU Memorial Union Quad.

April 26, Saturday, 1 - 4 pm

Work Party: Avery Garden. The native plant garden around the Avery House needs some work for the spring. Bring work gloves, tools, and water to drink. Contact: Esther, 541-754-0893.

May 4, Sunday, 9 am - 4 pm

Event Booth: Spring Garden Festival. We will again have a booth set up at this festival. Stop by to purchase some native plants for your garden, and maybe pick up some tips for a green thumb. We will also need volunteers to set up, take down, and run the booth.

For information about the festival, visit <http://madisonavenuetaskforce.org/springgardenfest.html>. If you would like to volunteer, contact Esther at 541-754-0893.

May 12, Monday, 7:30 pm

Talk: Golden Paintbrush in the Willamette Valley. Caitlin Lawrence has been studying how best to reintroduce this species, once lost from the Willamette Valley. Location: Avery House in Avery Park. Contact: Kevin, 208-921-0827.

Emerald

Visit the Emerald Chapter Web site at <http://emerald.npsoregon.org> to learn more about the latest chapter events, plant lists & botanical information about Lane County plants & the people who love them.

Meeting location: Conference Room at Lane County Mental Health, 2411 Martin Luther King Blvd. Turn off MLK Blvd. onto Scout Access Rd. across from Autzen and take the first left into the parking lot. The meeting room is on the right side as you face the building.

April 12, Saturday, 1 - 4 pm

Work Party/Walk: Mt. Pisgah Arboretum. Join Gail Baker and Jenny Lippert to help with sorting and cleaning vases that will be used for displaying plant collections at the annual wildflower festival. We'll take a break from work and walk along the arboretum trails to see which wildflowers are in bloom, so it will be educational too! Location: Mt. Pisgah Arboretum, White Oak Pavilion. Contacts: Gail at 541-344-8377 or Jenny at 541-343-3242.

April 17, Thursday, 7:30 pm

Meeting/Talk: Growing More than Plants at the Friends of Buford Park Nursery. Jason Blazar gives a presentation on the purpose, scope, and scale of native plant material production in the Mt. Pisgah area. Jason has been the stewardship coordinator of Friends of Buford Park (FBP) since November 1999. His talk includes context within the FBP stewardship program, purpose, scale, production, marketing, ethno botanical projects, educational

opportunities, and an opportunity for the NPSO Emerald Chapter to consider partnering to develop a pollinator demonstration garden at the nursery. Location: Conference Room at Lane County Mental Health, see above for directions. For more information call 541-344-8377.

April 26, Saturday, 12:15 pm

Field Trip: Oregon Country Fair Wildflower Walk. Bob Nisbet and Charlene Simpson will lead a wildflower walk at the site of the Oregon Country Fair. This is an opportunity to see abundant spring wildflowers in a riparian site. The walk is flat land, but some areas are wet. Wear appropriate shoes. Location: meet at 12:15 pm under the fir trees at Lowes' parking lot, northeast corner at West 11th Ave. and Bailey Hill to carpool to the site. Contact: Charlene Simpson, 541-465-1059.

May 8, Thursday, 9 am - 1 pm

Field Tour: Coyote Spencer Wetlands. Join Dave Predeek, Gail Baker, and Clay Gautier of NPSO and Ryan Ruggiero of the McKenzie River Trust (MRT) for a tour of this wetland reserve. Coyote Spencer is several miles southwest of Eugene. MRT acquired 2 parcels totaling nearly 200 acres to protect rare plants and unique wetland habitat. For more information and to sign-up, visit <http://mckenzie river.org/events/> or call 541-345-2799 (Note: This tour will be repeated June 22.).

Save the Date!

May 22, Thursday, 7:30 pm

Meeting/Talk: Determining the Environmental Factors that Drive the Distribution of a River Ecosystem Engineer, *Carex nudata*.

High Desert

For information, visit the High Desert Chapter website: www.highdesertnpsoregon.org and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email highdesertnps@gmail.com.

April 12, Saturday, Time TBA

Field Trip: Columbia Gorge. Details will be posted on the chapter website

when available.

April 26-27, Saturday-Sunday

Field Trip: Glide Wildflower Show. We will visit the Glide Wildflower Show and botanize on the west side of the Cascades, with an overnight campout on the 26th. If interested in camping, contact Susan Berger at suzyfishn@gmail.com or visit the chapter website for full details.

May 4, Sunday, Time TBA

Field Trip: Painted Hills in the John Day. Details will be posted on the chapter website when available.

May 24, Saturday, Time TBA

Field Trip: Alder Springs. Details will be posted on the chapter website when available.

June 20-21, Friday-Saturday

Event: Central Oregon Wildflower Show. The High Desert Chapter is working on this wildflower show, to be held at the Sunriver Nature Center (www.sunrivenaturecenter.org). Volunteers will be needed to "harvest" specimens, help ID, and be on hand to answer questions during the two-day show. To help, please contact chapter vice president Susan Berger at suzyfishn@gmail.com.

Klamath Basin

This chapter has recently become active. For information, visit the Klamath Basin Chapter website: <http://klamathbasinnps.com> or contact the chapter president, Melissa Schroeder meljschroeder@gmail.com.

Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at wusara96@yahoo.com.

April 12, Saturday, 9 am

Tour: The Dalles Mountain Ranch Prairie Restoration Site. Join Bob Hansen for a walk to see the effect of cattle grazing on this sage-steppe grassland and to offer suggestions regarding the restoration project. The tour will be about 2 hrs to allow for discussion at various viewpoints. Distance: 1-2

miles on open prairie, no path. Location: meet at the The Dalles Mountain Ranch old ranch site at the intersection of The Dalles Mountain Road and the access road to Stacker Butte. Bring a sack lunch if you wish to eat at the site at the end of the walk. For details and to register, contact Bob Hansen at 509-637-2736, bobhansen@gorge.net.

April 17, Thursday, 7 pm

Program/Meeting: Early Detection and Rapid Response to the Worst Weeds of the Columbia Gorge. Cyndi Soliz, partnership specialist, Skamania County Noxious Weed Program and vice-president of the Cape Horn Conservancy, will provide an introduction to the "Worst Weeds of the Gorge" as designated by the Columbia Gorge Cooperative Weed Management Area (CGCWMA). The CGCWMA consists of 25 land management organizations that coordinate activities to address invasive weeds across their jurisdictions within the Gorge. Their approach promotes Early-Detection-Rapid-Response (EDRR) strategies, with an emphasis on prevention. Location: Room 1.366, Columbia Gorge Community College, The Dalles.

Portland

If you would like to receive the chapter's semi-official e-mail newsletter, The Calochortus, e-mail Don Jacobson at donj-photo@gmail.com.

Facebook: Take a look at our Facebook page. Native Plant Society of Oregon-Portland-Chapter. It will have the most up-to-date information on hike and other events as well as great plant pictures.

Meeting location: The Portland Chapter meets the second Thursday of most months in the Metro Building at 600 NE Grand Ave., Portland. Enter from NE Irving St. on the north side of the building and walk across the upper plaza to the entrance (not the door on 600 NE Grand Ave.). An attendant will let you in and direct you to the meeting room upstairs. Meetings and programs begin at 7 pm.

April 8, Tuesday, 9 am

Field Trip: McCord Creek. Early flowers at McCord Creek include *Synthyris*, *Douglasia*, and *Oemlaria*. This is an easy hike of about 3 miles round trip with 500 feet elevation gain. Driving is about 60 miles round trip. Be ready to leave at 9 am; call leaders for meeting location: Jan and Dave Dobak, 503-248-9242.

April 10, Thursday, 7 pm

Program: Getting Close to Our Native Ferns. Dr. David Wagner's talk will emphasize looking at our native ferns with a fresh eye using some of the newer tools of technology. He has been using his compound microscope, LED lights, digital camera, and stacking software to make beautiful, close-up pictures of some of the smaller parts of ferns, both outside and inside. Meeting location: Metro Building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

April 12, Saturday, 2-4 pm

Field Trip: Nob Hill Nature Park (NHNP). Join us in St. Helens for an easy stroll to view *Trillium* and fawn lily in an area currently undergoing restoration. NHNP is a small oak woodland, perched on a basal bluff, that overlooks the Columbia River. Poison oak is common off well-maintained trails. Long pants and long sleeves are suggested. This event is on, rain or shine. Location and directions: Meet at the city of St. Helens wastewater treatment facility across from the park at 2 pm. From Portland, take Hwy 30 north about 30 miles. At the WalMart in St Helens, turn right on Gable Rd., bear right on Plymouth St., then right again on Sixth, and continue to the wastewater treatment plant on the right side. Park across from the park's main entrance. A plant list is available by calling trip leader, Caroline Skinner at 503-248-9719. For day of event only, call 503-349-8586.

April 19, Saturday, 8:30 am - 4:30 pm

Field Trip: Memaloose Hills. Wild-flower hike in the eastern Gorge, moderate, 5-6 miles, 800 foot elevation gain. You will not find this hike in any book. The trail is jam-packed with

flower species, including the rare violet suksdorfia and big shows of balsamroot. It boasts a pioneer road and basalt formations and was a favorite of Russ Jolley. 140 miles round-trip drive. Registration required, contact Beth Magnus at 503-706-5108 or magnuselisabeth@gmail.com; carpooling info provided at signup. Be ready to leave at 8:30 am.

April 30, Wednesday, 6:30 pm

Field Trip: Camassia Nature Preserve Hike. Easy one-mile hike. A profusion of *Camassia quamash*, hopefully in full bloom, and 300 other plant species. Location: meet at the preserve entrance at 5000 Walnut Street, West Linn. Contact: Roger Brewer, rogerbrewer@comcast.net or 503 789-5027. This trip may be delayed if weather is not agreeable so you are strongly encouraged to contact Roger and let him know you're planning to attend. Also, let Roger know if you can't get there by 6:30 pm. The preserve is small so you may be able to still join the group.

May 3, Saturday, 10 am - 3 pm

Field Class: Penstemon Keying Workshop. Learn to key *Penstemon* from close up photos projected to a large-screen TV and a tour of garden specimens. Focus on the four major subgenera as well as a selection of species. Bring a hand lens and any *Penstemon* keys you might have available (e.g., Strickler, Lodewick, Hitchcock); some handouts will be provided. Bring a sack lunch; beverages will be available. A fee of \$20 required. Location: this workshop will be held at the home of the instructor. For more information or to sign up for the class, contact Nancy Chapman at chapmannj@comcast.net.

May 8, Thursday, 7 pm

Program: Rock Stars of the Western Cascades. Emerald Chapter member Tanya Harvey will show photos of rock-loving plants that grow in Oregon's Western Cascades. She will talk about the different types of rocky habitats where they can be found and share some good locations to look for them. For information about her plant explorations, visit her website, www.westerncascades.com. Tanya will bring her art, photo cards, and bird ornaments

for sale (see www.tanyaharveydesign.com). Meeting location: Metro Building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

May 10 and 17, Saturdays, 8:30 am - 4 pm

Field Class: Learn to Use a Botanical Key. This two-day, highly interactive class at Tryon Creek State Park, taught by Brent Miller, will teach you how to use a key to identify live or pressed plants. The first day will be with plants in a classroom, learning how to read a key and getting familiar with basic technical vocabulary. The second day you'll take your knowledge into the field, keying out plants in their native habitats. Fee of \$40 and book (Hitchcock & Cronquist) required. We will have a few copies of the book to loan. For more information or to sign up for the class, contact Nancy Chapman at chapmannj@comcast.net.

Save the Date!

May 18, Sunday, 11 am - 2 pm

Field Trip: Local Grasses. Rick Shory will lead this field trip at Rocky Butte in Portland. For more information or to register, contact Rick at rickshory@gmail.com, phone 503-253-8100.

Siskiyou

To join the Siskiyou Chapter email list: Send an email, from the address at which you want to receive announcements, to announce-join@siskiyou.npsoregon.org. No subject or message is required. You will get a confirmation email. If you would like to volunteer to lead a hike in 2014, make a suggestion, or provide feedback regarding the field trip program please contact Sasha Joachims at: sasharain71@gmail.com.

April 12, Saturday, 10 am

Hike: Rough and Ready Botanical Wayside. Come and experience rare native flowers, unique plant communities, and open rocky landscape. The wildflowers of Rough & Ready Creek are threatened by two invasive species - *Alyssum murale* and *A. corsicum*. A large local eradication effort has been mobilized and we will keep an eye out

for the *Alyssum* as we walk. Bring drinking water and wear layered clothing and comfortable shoes. The ground is relatively level, but uneven and very rocky. Part of the hike is wheelchair accessible. Location: meet at Rough and Ready Botanical Wayside on the west side of Hwy 199, south of Cave Junction. Contact: Suzanne Vautier of the Cultural & Ecological Enhancement Network (CEEN) at 541-291-8860.

April 17, Thursday, 7 pm

Rescheduled Talk: Plant Galls. Oak apples, honeydew ambrosia galls, and witches' brooms - all are types of plant galls, a commonly observed, yet little-understood botanical phenomenon. Ronald Russo, author of the *Field Guide to Plant Galls of California and Other Western States*, will describe how galls are growths of various shapes, sizes, and colors produced by host plants in response to invading insects and other organisms. Location: Southern Oregon University, Science Bldg., RM 171. Refreshments at 6:45 pm, meeting and program at 7 pm. Contact: Kristi at 541-941-3744.

May 10, Saturday, 9 am

Hike: Flounce Rock and Baker Cypress ACEC. Easy 1/4 mile hike to the grove of Baker Cypress trees, rocky scablands, vernal wet meadows, and conifer stands. We MAY see *Paeonia brownii*, *Fritillaria pudica*, and what I think is *Lewisia pygmaea*. We may also tally the surviving Baker Cypress seedlings the BLM planted. Then we'll drive about 1/3 mile to the top of Flounce Rock. This is a good spot for a lunch break with lovely views. WARNING - Flounce Rock is at the top of steep cliffs, although there is ample flat area to park and walk around. There are also several telecommunication towers there. We'll return to Medford by early afternoon. Location: meet at the Medford Interagency (BLM/Forest Service) office at 3040 Biddle Rd, Medford. Contact: Marcia Wineteer at mwineteer@q.com or 541-535-3081.

Umpqua Valley

Visit www.umpquavalleynativeplants.com

for more information on chapter activities or to be added to our e-mail list.

April 5, Saturday, 10 am - 4 pm

Community Event: Earth Day Celebration and Fair. Be sure to visit our NPSO booth at the Earth Day Fair in Roseburg. We will have handouts about NPSO and members ready to answer questions. We also have landscaping information. No entry fee to attend the fair. Location: Douglas Hall at the Douglas County Fairgrounds, Roseburg. From I-5 take exit 123.

April 10, Thursday, 6 pm

Meeting: General Business. Our chapter meets on the second Thursday of the month. We are asking for more participation in planning upcoming events and field trips. Please visit our website, www.umpquavalleynativeplants.com, to be added to our email list and sign up to participate in our database research. Location: Mercy Community Education Room 1, above Parkway Medical Supply. For information call 541-459-2821, evenings.

April 12, Saturday, 9:30 am - 1 pm

Field Trip: Wildflower Walk. Join us for a wildflower walk-about on private property near Roseburg. We will also visit RUSA's Memorial Natural Treatment Facility nearby to see how the wetlands there are performing. Bring a snack or even lunch and appropriate clothing. Location: meet at 9:30 am at the courthouse parking lot on Fowler St. in Roseburg, behind the library. Parking is limited at the site so plan to carpool. Contacts: Jim Long 541-673-3713 or Donna Rawson 541-459-2821, evenings.

April 26 - 27, Saturday - Sunday, 9 am - 5 pm

Community Event: Glide Wildflower Show. We think it is the "Pacific Northwest's Premier Wildflower Show". Folks come from around the world just to see this wildflower display of over 600 species. It will give you a better appreciation for the diversity and beauty of our own native flora. Visit our NPSO booth and say hello. Location: Glide

Community Center, 20062 N Umpqua Hwy 138, Glide. From I-5 at Roseburg, take exit 124, then through town follow signs to Rt. 138 East (North Umpqua Highway to Crater Lake). The Glide Community Center is just past Milepost 17 on the left. For more information, visit www.glidewildflowershow.org.

Willamette Valley

For program information, contact John Savage at 503-399-8615 or Alexandra Ninneman at 503-391-4145.

April 4-5, Friday-Saturday, 10 am - 3 pm

Program: *Erythronium* Native Plant Festival and Sale. Celebrate the earth's reawakening and the exquisitely beautiful *Erythronium oregonum* (native lilies) blooming at Historic Deepwood Estate. Purchase a few native plants for your own garden, take a guided nature walk led by members of NPSO, or just come to enjoy a day outside and the special exhibits and informational booths. Location: 1116 Mission St. SE (12th and Mission) in Salem. Free parking is available off Lee St. For more information, call 503-363-1825 or visit www.

HistoricDeepwoodEstate.org.

April 15, Tuesday, 6 pm

Field Trip: Bush Park Wildflower Walk. John Savage of the Willamette Valley Chapter will lead a walk to view wildflowers in Bush Park and Deepwood Estate. Nearly two dozen native wildflowers should be in bloom. Location: Meet at the bottom of the Soapbox Derby track in Bush Park. Free and open to the public. For more information, call 503-399-8615 after 7 pm.

April 17 & 24, Thursdays, 6:30 - 9 pm

Program: Wildflower Identification. Learn how to identify flowers of forest, field, woodlands, and riparian areas in this three-part class. Aislinn Adams and John Savage, Willamette Valley Chapter members, will explain the basics, focusing on common plant families and species in Oregon. Field trip details will be announced in class. Location: Straub Environmental Learning Center, 1320 A. Street NE, next to Olinger Pool, near North Salem High. This class is open to the public and costs \$5. Registration is required, please call 503-391-4145 or email fselc@fselc.org.

April 19, Saturday, 7 am - 5 pm

Field Trip: Catherine Creek. John Savage of the Willamette Valley Chapter will lead a trip to view the wildflowers at Catherine Creek in the Columbia Gorge. Come prepared for a long day, returning about 5 pm. Registration is required. Call 503-399-8615 after 7 pm for information about carpooling and to register.

William Cusick

Visit our Web site at <http://williamcusick.npsoregon.org> or contact Susan Geer at 541-963-0477 or Emelie Montgomery-Jones at 541-963-3339 for updates and general information. Chapter notices and communications are done primarily through a Google group. Members are reminded to contact Susan or Emelie if they want to be added to the Google group, or if they do not have internet access and want to be contacted by phone for events.

April 19, Saturday, 9 am

Native Plant Sale: Plantworks Nursery. To celebrate Earth Day, our chapter will sponsor a native plant sale, starting at 9 am. Proceeds will go to the Oregon Flora Project. Location: Plantworks Nursery, 69465 Lantz Lane, Cove.

Board Candidates, continued from page 2

Northwest to attend graduate school. She received her Ph.D in Botany at the University of Washington in 1995, and was a postdoctoral fellow in the Botany & Plant Pathology Department at Oregon State University. She is now the director of the Oregon Flora Project (OFP). Her association with the OFP began as a volunteer in 1999, focusing on outreach and giving slide presentations to public groups and NPSO chapters across the state. She also serves as chair of the NPSO Friends of the Oregon Flora Project Committee.

Laura Taylor (Portland) is a third-generation Oregonian and grew up exploring the Cascades and Sierra Nevadas with her family. She earned a B.S. in Botany and Plant Ecology from The Evergreen State College, and a M.S. in Invasive Plant Ecology

from Portland State University. She has worked for seven years providing botanical and ecological technical support for restoration projects with public, non-profit, and private organizations. Laura also teaches a course on native plants at Portland Community College. She is excited to join the NPSO Board, and is especially interested in the synergistic potential to be harnessed with advocacy for native plants and pollinators. Laura loves growing native plants as well as delicious veggies and berries in her garden in Portland, and occasionally escapes to go for a hike or bike ride.

Kevin Weitemier (Corvallis) was raised in Boise, Idaho, and has been an Oregon resident for the past eight years. He completed a Masters degree in Plant Systematics at Portland State University, where he investigated

Oregon's native lupines. Kevin is currently a Ph.D candidate in the Botany & Plant Pathology Department at Oregon State University, where he is studying milkweeds, including an Oregon native. He is currently Corvallis Chapter President and has successfully guided the chapter for the last two years. Kevin is looking forward to being on the state-wide board and contributing to the advancement of the NPSO mission. He is particularly interested in building ties with other conservation organizations in the state and increasing participation of Oregon's younger plant enthusiasts.



local boards, lead field trips and presentations at NPSO program meetings, contribute funds, and not currently active in local activities (195 responses).

We also asked **how participants would like to be involved in NPSO**, and you answered (183 responses).

How participants would like to be involved in NPSO	% of Respondents
Chapter outings or field trips	74
Educational and botanical workshops	72
Promoting native plants in landscaping	65
Chapter meetings	60
Weekend field-based workshops all over Oregon	51
Keeping invasive species out of the nursery industry	51
Advocacy for conservation issues and land use planning	5
Citizen's Rare Plant Watch outings	48
Attending the annual meeting	44
Petitioning ODA to review the status of rare plants in Oregon	44
Chapter work days	42
Plant sales	41
Native Plant Appreciation Week	40
Lobbying for native plant related issues	39
Plant shows	39
Putting on a scientific conference	36
Native plant education with youth	36
State Board meetings	12

A number of the "other" comments stressed advocacy - being a "voice" for native plants, introducing legislation

that deals with invasive species as well as ODA practice/policy, providing education and opportunity to landscape with natives.

Looking to the future...

We asked: **Do you support NPSO becoming an organization with a paid staff (initially only an executive director) to expand programming? Staff would administer and procure grants for educational and conservation related activities, and oversee fundraising to increase public awareness of the needs of Oregon's wild flora.** The overwhelming response was that this is a good idea (103 of 142 responses). Many commented that we need paid staff for the organization to grow and for NPSO to become more effective in advocacy. A major concern was cost (31 responses). Another concern, stated several times, was not having NPSO being money driven, a situation in which fundraising to support staff becomes a major focus of the organization or the Board to the detriment of our goals or activities. Other major concerns were raising dues to pay for the funded positions (respondents do not want dues to go up) and worry about how to continue to fund the positions after an initial grant. Thirteen people were opposed to the idea of paid staff.

Question 4 asked, **"What aspects of NPSO are more important to you?"** (138 responses; numbers in parentheses = number of responses)

- Education (102): this figure includes responses to the category of outreach (23), field trips (26), annual meetings (7), field based workshops/study weekends (12), chapter meetings/presentations/activities (14)
- Conservation/Advocacy (60)
- Social (24)
- Publications (10)
- Using natives in landscaping/Growing natives (9)
- Invasives: removal, education, solutions (7)
- Citizen science/Rare Plant Watch outings (6)
- Science/Research (4)

- Supporting flora projects in OR and WA/OFP (3)
- Holding native plant sales (3)
- Partnering with agencies, Bloom alerts, Making plant lists available (1 each)

The two categories that stood apart and were chosen 2 ½ to 4 ½ times more than any other were Education and Conservation/Advocacy. Currently, education is where NPSO focuses much energy by way of field trips, presentations at chapter meetings, annual meetings, etc. These results indicate a strong desire from the respondent membership for involvement and investment in conservation issues and advocacy.

Question 5 asked, **"What would you change about NPSO?"** (117 responses; numbers in parentheses = number of responses)

There were many diverse and thoughtful answers to this question. Two categories stood out with the most responses:

1. NPSO to take on issues related to conservation and advocacy (21).

Comments included:

- Lack of profile/activity/advocacy on state-wide level. Structure of meetings focused on slideshow/talk, rather than action.
- Lack of integration with other conservation groups.
- Have NPSO take stands on conservation issues in the state - be involved in state politics.
- Have a loud and clear voice regarding management of state lands and conservation issues. Be involved in BLM and FS project planning.
- When necessary NPSO should pursue lawsuits to protect native plants and TES species (2).
- NPSO involvement in petitioning for listing of rare endemic species (2).

One comment was cautionary:

- It could get problematic if the society were to get highly political - maybe "soft" political/urging in the right direction would be okay.

2. Increase PR to promote values of native plants; the organization needs more of a public face; become more visible to the general public which will also attract new members; outreach and education to the public (15).

And related to this: retention and recruitment of members. We need a strong membership to give credibility to our message and actions. Recruit diversity (7). Respondents seemed concerned with the need to increase the younger aged demographic and presence in the organization (13).

Related comments included:

- Build capacity and relevance.
- Remember not everyone knows Latin names of plants!
- The organization is a little unapproachable at times.
- Chapters need to remember the beginners; reach out to people just beginning to learn.
- There seems to be a culture on the listserv of exclusionism that may quash incipient discussions and ideas.

We received a lot of great ideas in response to our question, “**How can**

we attract new members to NPSO, especially in under-represented groups (20-40 year olds, professional botanists)?” Ideas from the 127 people who answered include: partnering with other organizations, more community visibility, increased and more effective online presence, general outreach suggestions, and other suggestions related to membership dues, refreshments for meetings, and activities.

These are the voices of NPSO members across the state. We thank all of those who took the time to participate and make their opinions heard. Your responses give the Development Committee and Board of Directors of NPSO an understanding of the membership’s vision for NPSO in the years to come. The strength of our commitment to education and conservation of Oregon’s native flora is unwavering.

If you would like to be a part of shaping the future of NPSO, please contact the NPSO Development Committee via Frances Stilwell, mfstilwell@peak.org.



Native Plant Appreciation Week is April 27 – May 3. Our 2014 poster, designed by Susan Berger, features *Phlox diffusa* photographed by Ray DeBaun. For information about events, see the NPSO Calendar and the list of wildflower festivals.

New Releases - Oregon Wildflower Apps

You’ve been waiting months for the spring wildflowers to appear. Do you trust your memory to identify the species you see on your outdoor ramblings or should you lug a wildflower field guide with you? This season you may only need to pack your smartphone. Two wildflower apps for Oregon species have recently been developed.

The Oregon Wildflower app, by Oregon Flora Project (OFP), includes close to 1000 species of flowering herbs, vines, and shrubs across Oregon. Though primarily designed for amateur enthusiasts, the app can also be a resource for experienced botanists as the information has been collected by OFP staff and reflects their standards of quality and scientific rigor. Various plant and location filters allow users to narrow down to a single species profile

with photos, description, and distribution map. The app was developed in collaboration with High Country Apps, who recently released the Washington Wildflower app. It is compatible with all Android devices, Kindle Fire, iPhones, and iPads and will be available by mid-April.

Flora ID Northwest has created the 2900 Oregon Wildflowers app, which includes 92% of the native or naturalized non-grasslike flowering plants known to Oregon. Trees, shrubs, weeds, annuals, and perennials are all included. Flora ID Northwest has been producing plant identification software since 1994 and this app has all the functionality of their interactive keys for computers. A species list is available by either common or scientific name. By selecting plant characteristics, users

can filter to a single species listing with photos, description, and plant book references. The app is available now and will function on any device running Android versions 3.0 or higher. An app for Washington State, 2250 Washington Wildflowers, is also available.

Both of these apps can be purchased for Android devices at the Google Play Store, <https://play.google.com/store>. At the store, select “apps” and search for “wildflowers,” then scroll to your desired title. To purchase the Oregon Wildflower app for a different type of device, visit <http://www.highcountryapps.com>, and select your device under the smartphone picture of the app.

2014 Wildflower Festival Calendar for Oregon

by Gail Baker, Emerald Chapter

The Festival calendar presented here was initiated last year. If your region of Oregon has a wildflower festival that is not listed, please send your festival information in the format seen in the calendar to Gail Baker: bakerg@lanec.edu.

2014 Oregon Wildflower Festivals

Disclaimer/Caveat: All the information here was provided by individuals associated with the festivals or gleaned from internet sites. However, when planning your wildflower trips please double-check directly with the event contact to confirm dates and details.

April 4 – 5, Friday – Saturday, 10 am – 3 pm

Erythronium Native Plant Festival and Sale. Location: 1116 Mission St. SE (12th and Mission) in Salem. Free parking is available off Lee St. Information: call 503-363-1825, visit www.HistoricDeepwoodEstate.org, or see the listing in the Willamette Valley Chapter Calendar.

April 5 - 6, Saturday – Sunday, 10 am – 4 pm

Tryon Creek Trillium Festival and

Native & Hardy Plant Sale. Location: Tryon Creek, 11321 SW Terwilliger Blvd., Portland. Festival parking with free shuttle service at Lewis & Clark's Griswold Stadium. Information: www.tryonfriends.org/34th-annual-trillium-festival.

April 26 – 27, Saturday – Sunday, 9 am – 5 pm

Glide Wildflower Show. Location: Glide Community Center, 20062 N Umpqua Hwy 138, Glide. Information: www.glidewildflowershow.org or see the listing in the Umpqua Valley Chapter Calendar.

April 27, Sunday, 1 – 3 pm-

Northwest Nature Shop Spring Wildflower Show. Co-sponsored by the Siskiyou Chapter of NPSO. Location: NW Nature Shop, 154 Oak St, Ashland. Information: call 482-3241 or visit www.northwestnatureshop.com and click on the Calendar link.

May 3 - 4, Saturday – Sunday 10 am - 4 pm

Shady Cove & Trail Wildflower Association Show. Location: Shady Cove School multipurpose room, Cleveland St., Shady Cove, Jackson County.

Information: www.shadycovewildflowershow.com.

May 10, Saturday, 10 am – 4 pm
Mother's Day Birding and Wildflower Festival. Location: Silver Falls State Park. Information: call 503-874-0201 or visit www.oregonstateparks.org/park_211.php and click on the Events link.

Save the Dates!

May
Cheahmill Chapter NPSO Wildflower Show (McMinnville)

May 18, Sunday
Mt Pisgah Arboretum Wildflower & Music Festival (Eugene)

June 20 - 21, Friday - Saturday
Central Oregon Wildflower Show (Sunriver)

July 4, Friday
Irene Hollenbeck Memorial Wildflower Show (Ashland)



Can Your Employer Help the Environment?

Threats to our natural world are growing, as are demands on the lands, water, food, energy and other resources people and wildlife need to thrive. As green as Oregon is, it's simply not enough. We need more people and businesses supporting the environmental movement. EarthShare Oregon is working with NPSO to make that happen.

EarthShare, of which NPSO is a member, engages people at their workplaces to garner new support for environmental endeavors throughout your local community, across Oregon, and around the world. NPSO's membership in EarthShare Oregon enables us

to reach out to a broad cross-section of the state that might not otherwise learn about our work. This boosts our financial support and helps us build bridges to new volunteers and supporters.

EarthShare Oregon's workplace and online giving options, www.donation-pay.org/earthshareoregon, are easy ways for you to share responsibility for stewarding Oregon's environmental legacy. First, check the list of EarthShare's Business Partners online, <http://earthshare-oregon.org/campaigns/workplace-partners/partner-list>, to see which companies in your industry offer EarthShare. Then, if you don't have

an EarthShare campaign, get the facts about how easy it is to start one, www.earthshare-oregon.org/campaigns/considering1. Jan Wilson, EarthShare Oregon's Executive Director, can meet with you, and provide all the information you need to start up your campaign.

To learn more about bringing EarthShare to your workplace, call Jan at 503-223-9015 or email her at jan@earthshare-oregon.org.



NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

Address _____

City _____ State _____ Zip+4 _____

Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Native Plant Society of Oregon

P.O. Box 80714

Portland, OR 97280

DUES include monthly *Bulletin* and *Kalmiopsis* when published.

Membership is for the calendar year. New memberships enrolled after July 1 include the following year.

☐ New

☐ Renewal

☐ Student – \$12

☐ Regular – \$25

☐ Family – \$35

☐ Sustaining – \$60

☐ Patron – \$125

☐ Life Membership – \$500

☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$25 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____

Leighton Ho Memorial Field Botany Fund \$ _____

Augusta Rockafellar Memorial Scholarship \$ _____

Rare and Endangered Plant Conservation Fund \$ _____

Friends of the Oregon Flora Project \$ _____

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and changes of address (include old address) should be sent to the Membership Chair. Changes of address may also be e-mailed to Membership@NPSOregon.org.

OFFICERS & COMMITTEE CHAIRS

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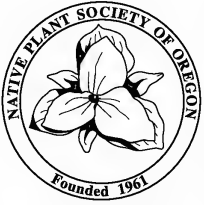
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www.oregonflora.org

The Oregon Flora Project is developing a comprehensive reference about the plants of Oregon that includes distribution maps, images of live plants and herbarium specimens, descriptions, and identification tools. The information is available to the public via our website, <http://oregonflora.org>. Funding for the Oregon Flora Project comes exclusively from competitive grants and donations from organizations and individuals. The contributions people give of their time and financial resources are a critical part of our operating budget. If you would like to be a part of the team that keeps the OFP progressing, please contact us at ofpflora@oregonflora.org, or phone 541-737-4338.

Contributions can be mailed directly to: Agricultural Research Foundation, 1600 SW Western Blvd. Ste. 320, Corvallis, OR 97333. Please make checks payable to the Agricultural Research Foundation and include "OFP" on the memo line.



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation and study of Oregon's native plants and habitats

VOLUME 47, NO. 4

MAY 2014

Back from the Brink: Reintroducing Golden Paintbrush to the Willamette Valley

by Isaac Sandlin, 2013 IAE Intern

Learn more about golden paintbrush at the Corvallis Chapter meeting on Monday, May 12. For more information about research projects at the Institute for Applied Ecology (IAE), visit their conservation research blog, 'Adventures in Conservation Research,' at <http://research.appliedeco.org>. For information on internship opportunities, please contact Denise Giles-Johnson at Denise@appliedeco.org, 541-753-3099, or visit www.appliedeco.org.

Savvy wildflower enthusiasts in the Willamette Valley might have spotted an exciting re-addition to the flora in recent years – golden paintbrush (*Castilleja levisecta*). This sun-loving prairie wildflower, not seen in the Beaver State since 1938, has enjoyed a renaissance since its listing as "Threatened" by the U.S. Fish and Wildlife Service and subsequent reintroduction efforts by IAE and other partners. Considered extirpated from the state of Oregon, golden paintbrush now exists in a handful of planted populations on protected land throughout the Willamette Valley, as attempts to reintroduce the species gain traction.

Golden paintbrush is a short-lived perennial herb in the figwort family (Scrophulariaceae), and can be most easily recognized by its showy, golden yellow bracts, which hide inconspicuous flowers. It has anywhere from 1-30 unbranched stems that can grow to over 30cm tall.

Like other species in the genus *Castilleja*, Golden paintbrush is

hemi-parasitic, taking nutrients directly from the soil or the root systems of surrounding grasses and forbs through root appendages known as haustoria. Golden paintbrush is known only to reproduce from seed resulting from cross-pollination. Plants start to bloom as early as April in the Willamette Valley, with peak flowering in May and June.

The remaining wild populations of golden paintbrush primarily occur in grass-dominated coastal bluffs on the islands of Puget Sound and lower Vancouver Island, with the lone mainland population occurring at Rocky Prairie, a glacial outwash prairie in Thurston County, Washington. Golden paintbrush's southern range is documented in the Willamette Valley from at least

six locations in Linn, Marion, and Multnomah counties, but because the species was extirpated from Oregon so early, its precise historic distribution is poorly understood.

The decline of golden paintbrush reads like an epitaph for the Willamette Valley prairie itself. Prior to 1850, an estimated one million acres of native grassland existed in a mosaic of oak woodlands, gallery forests, and wet prairies of the Willamette Valley. These open prairies were set ablaze at the summer's end by the Kalapuya peoples for the purpose of food production, making them a managed feature of the landscape prior to European settlement. Native species currently under threat of extinction such as Kincaid's lupine and Fender's blue butterfly were once widely distributed throughout

continued on page 8



TOM KAYE, IAE

Golden paintbrush (Castilleja levisecta) is a threatened plant of prairies that until recently has been extinct from western Oregon prairies.

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOregon.org>

E-mail Discussion List

To join, send a message to majordomo@tardigrade.net, with the following in the body of the message: subscribe npsos

General Business Address

P.O. Box 902
Eugene, OR 97440
or correspond directly with Officers
and Committee Chairs listed on the
inside of the back page.

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articles. They do not represent the
opinions of the Native Plant Society
of Oregon, unless so stated.

2014 NPSO Annual Meeting

June 6 – 8
in Cannon Beach

Registration deadline is June 1!

Information in February *Bulletin*
and online at www.npsoregon.org/2014mtg



Kalmiopsis Seeking New Editor

If the experience of being the editor of a classy botany journal is on your bucket list, then you should jump at this chance. Due to unforeseen circumstances, the current editor is unable to continue, so a new editor is needed for the 2015 issue. Although the new editor will no doubt make a number of changes, he/she will find that all the infrastructure is in place for moving ahead seamlessly. There is an experienced editorial board, a typesetter who has done the layout since the first issue, a printer who reliably gives an excellent product at a fair price, and a mail service that adds labels and deals with the bulk mail without a glitch. Information about the editorial responsibilities is on page 7 of the NPSO Board Handbook (www.npsoregon.org/documents/NPSOBoardHandbook.pdf). If you are interested and have some experience in botany and editing, contact Judi Sanders at president@npsoregon.org.



2014 Wildflower Festival Calendar for Oregon

The Festival calendar presented here was initiated last year. If your region of Oregon has a wildflower festival that is not listed, please send your festival information in the format seen in the calendar to Gail Baker: bakerg@lanecc.edu.

Disclaimer/Caveat: All the information here was provided by individuals associated with the festivals or gleaned from internet sites. However, when planning your wildflower trips please double-check directly with the event contact to confirm dates and details.

May 3 - 4, Saturday – Sunday 10 am - 4 pm

Shady Cove & Trail Wildflower Association Show. Location: Shady Cove School multipurpose room, Cleveland St., Shady Cove, Jackson County. Information: www.shadycovewildflowershow.com.

May 10, Saturday, 10 am – 4 pm

Mother's Day Birding and Wildflower Festival. Location: Silver Falls State Park. Information: call 503-874-0201, visit www.oregonstateparks.org/park_211.php and click on the Events link or see the listing in the Willamette Valley Chapter Calendar.

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NPSO CALENDAR

State Notes

NPSO Annual Meeting 2014

June 6 - 8, Friday - Sunday

The Cheahmill Chapter will be hosting the 2014 Annual Meeting of the Native Plant Society of Oregon in Cannon Beach. The State Board meeting will be held on Sunday. Information is in the February *Bulletin* and online at www.npsoregon.org/2014mtg. **You must register by June 1 to attend the banquet.**

Blue Mountain

For information on Blue Mountain Chapter call Jerry Baker, 541-566-2244.

May 21, Wednesday, 7 pm

Meeting/Talk: Native Vegetation of Meacham Creek. Join us for a chapter meeting and talk by Olin Anderson, assistant habitat biologist with the tribal fisheries. Olin will talk about native vegetation and habitat research on Meacham Creek. Location: meet in the theater room at the Prodigal Son Brewery and Pub, 230 SE Court Ave., Pendleton.

June 14, Saturday, 9 am

Field Trip: Emigrant Springs. There will be a joint NPSO and Oregon State Parks Foundation field trip to Emigrant Springs State Park, about 20 miles east of Pendleton on Interstate 84. Bring lunch. Location: meet at 9 am in the County Health Department parking lot across from the Prodigal Son in Pendleton, or at 9:30 in the parking lot to the left inside the state park entrance.

Cheahmill

For more information, visit the chapter Web site, www.oregon-nativeplants.com. To be added to the e-mail list for upcoming programs and events, please contact cheahmillchapternpsocomcast.net.

May 22, Thursday, 7 pm

Talk: Growing Hardy Bulbs. An en-

gaging presentation by Mark Akimoff, owner of Illahe Rare Bulbs Nursery and a natural area specialist with the City of Salem, about the evolution and adaptations of bulbous plants. Lots of northwest natives like *Fritillaria*, *Allium*, *Calochortus*, *Erythronium*, and *Brodiaea* will be discussed. Mark will also present on bulb cultivation, soils, predators, and pests. Doors open at 6:45 pm for socializing, Meeting/program starts

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. **BRING WATER AND LUNCH.** Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. A sample waiver form is available at http://npsoregon.org/documents/NPSO_waiver.pdf. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Dogs are not allowed. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. You must pre-register for all events. National Forests require a Northwest Forest Pass for some field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12. A trip leader checklist and sample waiver form are available at: <http://npsoregon.org/calendar.html>

at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Hwy 99W and SW 2nd St.). Parking lot entrances on Adams and 2nd Streets. Information: Luke Westphal, 971-388-9200 or lukewestphal@gmail.com.

Corvallis

For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Kevin Weitemier at co_president@NPSOregon.org or 208-921-0827.

May 4, Sunday, 9 am - 4 pm

Event Booth: Spring Garden Festival.

We will again have a booth set up at this festival. Stop by to purchase some native plants for your garden, and maybe pick up some tips for a green thumb. We will also need volunteers to set up, take down, and run the booth. For information about the festival, visit <http://madisonavenuetaskforce.org/springgardenfest.html>. If you would like to volunteer, contact Esther at 541-754-0893.

May 12, Monday, 7:30 pm

Talk: Golden Paintbrush in the Willamette Valley. Caitlin Lawrence has been studying how best to reintroduce this species, once lost from the Willamette Valley. Location: Avery House in Avery Park. Contact: Kevin, 208-921-0827.

May 17, Saturday, 9 am - 1 pm

Field Trip: Horseshoe Lake. This is a rare opportunity to visit private property on the banks of the Willamette River between Corvallis and Albany. Participants will see western pond turtles, a diversity of native riparian wildflowers, and a floodplain forest gallery. Wet, muddy areas are guaranteed, so wear boots. Bring a bag lunch and water. Moderate bushwhacking is involved across bumpy terrain. Direct questions to Matt@Greenbeltlandtrust.org.

June 9, Monday, 7:30 pm (tentative)

The Corvallis chapter generally does

not hold a meeting in June, but we are considering holding one this year to make up for the February meeting that was cancelled. Check the June edition of the Bulletin for final details. You can also watch the NPSO events calendar at www.npsoregon.org/calendar.html, or check the chapter message board at <https://groups.google.com/group/corvallis-nps>.

Emerald

Visit the Emerald Chapter Web site at <http://emerald.npsoregon.org> to learn more about the latest chapter events, plant lists & botanical information about Lane County plants & the people who love them.

Meeting location: Conference Room at Lane County Mental Health, 2411 Martin Luther King Blvd. Turn off MLK Blvd. onto Scout Access Rd. across from Autzen and take the first left into the parking lot. The meeting room is on the right side as you face the building.

May 8, Thursday, 9 am - 1 pm

Field Tour: Coyote Spencer Wetlands. Tour leaders are Dave Predeek of NPSO and Ryan Ruggiero of the McKenzie River Trust (MRT). The reserve is several miles southwest of Eugene. MRT acquired 2 parcels totaling nearly 200 acres to protect rare plants and unique wetland habitat. For more information and to sign up, go to the MRT website at <http://mckenzie-river.org/events/> or call 541-345-2799. (Note: This tour will be repeated June 22.)

May 10, Saturday, 9 am

Wildflower Tour: Bikes to Blooms. This bike-based wildflower tour will visit three sites on the Row River Trail along scenic Dorena Lake. Regional plant experts will lead participants through natural areas with native prairie plants in bloom. Bring a helmet, water, picnic lunch, and bike in order to ride the 5 miles between the three sites. All sites will be accessible by car, but riding is encouraged. Pre-registration is required and space is limited. See www.coastfork.org for more information. Volunteers needed: contact Pam Reber of Coast Fork Willamette Watershed Council at 541-767-9717 or

coordinator@coastfork.org.

May 17, Saturday, 9 am

Event: Volunteers Needed! If you would like to help collect flowers for the Mt. Pisgah Arboretum Wildflower and Music Festival, please contact Kate Shapiro: katshap@gmail.com. To help set up displays, come to the Arboretum at 9 am on Saturday.

May 18, Sunday, 10 am - 5 pm

Event: Mt. Pisgah Arboretum Wildflower and Music Festival. A plant sale and hundreds of native wildflowers will be on display. There will be live music, information booths of many local organizations, and food! Sponsored by the Mt. Pisgah Arboretum, Lane Community College's Botany Department, and NPSO Emerald Chapter. Location: map and directions at www.mountpisgaharboretum.com/visit-mpa/direction. Information: 541-747-3817.

May 22, Thursday, 7:30 pm

Meeting/Talk: Determining the Environmental Factors that Drive the Distribution of a River Ecosystem Engineer, *Carex nudata*. Researcher Matthew Goslin of the University of Oregon, Department of Geography, is an NPSO grant recipient. Location: Conference Room at Lane County Mental Health, 2411 MLK Blvd. See above for directions. For more information, contact goslin@uoregon.edu or 503-383-7560.

June 14, Saturday, 9 am

Field Trip: Horse Rock Ridge. Alan Curtis leads a 3-mile hike to a steep, rocky meadow high in the Coburg Hills north of Springfield. Enjoy wonderful views of the surrounding countryside and great botanical diversity. Bring water and lunch. Location: meet at South Eugene High School. Contact: Alan Curtis, 541-345-2571.

June 29, Sunday, 8:30 am

Field Trip: Elk Camp Shelter and Nevergo Meadow. We will explore a complex of three wetlands north of Westfir. This is the northernmost site for the rare *Frasera umpquaensis*. Just a short ways from the trailhead, there's a historic shelter in magnificent old

growth forest next to the Elk Camp Meadow. The other two meadows are along the road nearby, so this trip should be suitable for all ages with easy walking of no more than a level mile round trip. Contact trip leader Tanya Harvey at tanya@westerncascades.com or 541-937-1401 to register. For more info about the area, visit <http://westerncascades.com/tag/elk-camp-shelter>.

High Desert

For information, visit the High Desert Chapter website: www.highdesertnpsoregon.org and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email highdesertnps@gmail.com.

May 4, Sunday, Time TBA

Field Trip: Painted Hills in the John Day. Details will be posted on the chapter website when available.

May 24, Saturday, Time TBA

Field Trip: Alder Springs. Details will be posted on the chapter website when available.

June 20-21, Friday-Saturday

Event: Central Oregon Wildflower Show. The High Desert Chapter is working on this wildflower show, to be held at the Sunriver Nature Center (www.sunrivernaturecenter.org). Volunteers will be needed to "harvest" specimens, help ID, and be on hand to answer questions during the two-day show. To help, please contact chapter vice president Susan Berger at suzyfishn@gmail.com.

Klamath Basin

This chapter has recently become active. For information, visit the Klamath Basin Chapter website: <http://klamathbasinnps.com> or contact the chapter president, Melissa Schroeder meljschroeder@gmail.com.

Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at wusara96@yahoo.com.

May 15, Thursday, 7 pm

Chapter Meeting: Annual Meeting

Planning Session. We will be settling on details and task assignments for the 2015 Annual Meeting. All chapter members are urged to attend (PLEASE!). Bring photos and plant lists for hiking areas you're fond of. Informational packets will be distributed in advance and a light supper will be served – so, please RSVP to Dell Rhodes: rhodes@reed.edu or 509-493-3572. Location: Room 1.366, Columbia Gorge Community College, The Dalles.

Portland

If you would like to receive the chapter's semi-official e-mail newsletter, The Calochortus, e-mail Don Jacobson at donj-photo@gmail.com.

Facebook: Take a look at our Facebook page. Native Plant Society of Oregon-Portland-Chapter. It will have the most up-to-date information on hike and other events as well as great plant pictures.

Meeting location: The Portland Chapter meets the second Thursday of most months in the Metro Building at 600 NE Grand Ave., Portland. Enter from NE Irving St. on the north side of the building and walk across the upper plaza to the entrance (not the door on 600 NE Grand Ave.). An attendant will let you in and direct you to the meeting room upstairs. Meetings and programs begin at 7 pm.

May 3, Saturday, 10 am - 3 pm

Field Class: *Penstemon* Keying Workshop. Learn to key *Penstemon* from close up photos projected to a large-screen TV and a tour of garden specimens. Focus on the four major subgenera as well as a selection of species. Bring a hand lens and any *Penstemon* keys you might have available (e.g., Strickler, Lodewick, Hitchcock); some handouts will be provided. Bring a sack lunch; beverages will be available. A fee of \$20 required. Location: this workshop will be held at the home of the instructor. For more information or to sign up for the class, contact Nancy Chapman at chapmannj@comcast.net.

May 8, Thursday, 7 pm

Program: Rock Stars of the Western Cascades. Emerald Chapter member Tanya Harvey will show photos of rock-loving plants that grow in Oregon's Western Cascades. She will talk about the different types of rocky habitats where they can be found and share some good locations to look for them. For information about her plant explorations, visit her website, www.westerncascades.com. Tanya will bring her art, photo cards, and bird ornaments for sale (see www.tanyaharvey-design.com). Meeting location: Metro Building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

May 10 and 17, Saturdays, 8:30 am - 4 pm

Field Class: Learn to Use a Botanical Key. This two-day, highly interactive class at Tryon Creek State Park, taught by Brent Miller, will teach you how to use a key to identify live or pressed plants. The first day will be with plants in a classroom, learning how to read a key and getting familiar with basic technical vocabulary. The second day you'll take your knowledge into the field, keying out plants in their native habitats. Fee of \$40 and book (Hitchcock & Cronquist) required. We will have a few copies of the book to loan. For more information or to sign up for the class, contact Nancy Chapman at chapmannj@comcast.net.

May 18, Sunday, 11 am - 2 pm

Field Trip: Local Grasses. We will ID local grasses at Rocky Butte State Park with Rick Shory, who has worked botanically with grasses since 1993. If this is your first time with grasses, you should choose one single species to learn; we hold these sessions on an ongoing basis. We will go more by recognition than keying. Physical difficulty: Low. It is open and breezy on top so dress in enough layers to stay comfortable. Location: meet at Rocky Butte State Park in NE Portland. Parking is along the ring road around the "castle" at the top (GPS: 45.546753, -122.565912). Please RSVP, as space is limited: rickshory@gmail.com,

or 503-253-8100. Helpful to bring: Strong reading glasses (These serve as hands-free, binocular hand lenses). Your preferred plant key, if you wish. Tweezers and/or probes. A portable surface to work on, to pick apart tiny structures. Lunch!

June 12, Thursday, 7 pm

Program: On the Origins of New Plant Species: Pollination, Natural Selection, and Flower Color Evolution. Matt Streisfeld, assistant professor at the University of Oregon's Institute of Ecology and Evolution, will address the biological process of plant species formation (speciation), what we have learned (or not) since Darwin. He will describe his research, which studies the factors responsible for divergence of California bush monkeyflowers (*Mimulus aurantiacus*), a group of wildflowers which are at an early stage of speciation. Meeting location: Metro Building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

Siskiyou

To join the Siskiyou Chapter email list: Send an email, from the address at which you want to receive announcements, to announce-join@siskiyou.npsoregon.org. No subject or message is required. You will get a confirmation email. If you would like to volunteer to lead a hike in 2014, make a suggestion, or provide feedback regarding the field trip program please contact Sasha Joachims at: sasharain71@gmail.com.

May 10, Saturday, 9 am

Hike: Flounce Rock and Baker Cypress ACEC. Easy 1/4 mile hike to the grove of Baker Cypress trees, rocky scablands, vernal wet meadows, and conifer stands. We MAY see *Paeonia brownii*, *Fritillaria pudica*, and what I think is *Lewisia pygmaea*. We may also tally the surviving Baker Cypress seedlings the BLM planted. Then we'll drive about 1/3 mile to the top of Flounce Rock. This is a good spot for a lunch break with lovely views. **WARNING** - Flounce Rock is at the top of steep cliffs, although there is ample flat area to park and walk around. There are also

several telecommunication towers there. We'll return to Medford by early afternoon. Location: meet at the Medford Interagency (BLM/Forest Service) office at 3040 Biddle Rd, Medford. Contact: Marcia Wineteer at mwineteer@q.com or 541-535-3081.

May 15, Thursday, 7 pm

Rescheduled Program: Propagating Milkweed for Monarch Butterflies.

This will be the last chapter talk until September. Join Tom Landis, a local monarch and milkweed expert, to learn about monarch butterflies and the plants they need to survive, native milkweeds. Tom will discuss how to propagate milkweeds to assist this beautiful declining butterfly. Location: Southern Oregon University, Science Building, RM 171. Refreshments at 6:45 pm, meeting and program at 7 pm. Free. Contact Kristi: 541-941-3744.

June 14, Saturday, 9 am

Hike: Hunter Creek Bog ACEC. The local hiking group Muscle Busters is sponsoring hikes to this unique treasure that is now threatened by the proposed nickel mining operation. This trip will be more of a meander than a hike as we poke around the bog looking for flowers. There are some rocks that need to be negotiated on the hike in and some wet spots in the bog to avoid. We will return to Gold Beach by lunchtime. Participants will be provided with flora and fauna lists. Wear waterproof hiking shoes, bring snacks and water, and be prepared for the weather. Location: meet at 9 am at the Event Center in Gold Beach or 8:15 am at Dr. Larsson's office, 414 Alder Street in Brookings, to car pool. Heavy rain will cancel. For more information contact Al Collinet at 541-412-8444.

June 22, Saturday, 9 am

Hike: Pilot Rock Proposed Trail Reroute. The BLM is proposing a trail reroute to ease the steep grade and minimize the "braided" impacts to the scree slope areas. Join Armand Rebischke, Ashland resource area botanist, to identify species and habitats of concern. We will discuss potential issues and ideas to minimize impacts from trail

construction. This is an opportunity to learn what is there prior to trail building and discover if there are "pockets of interest" to avoid. Wear sturdy hiking shoes and bring sun protection, plenty of water, and snacks or lunch. Hiking will be moderate to difficult, with some off trail sections. Round trip mileage is 3-5 miles with 500-1000' elevation change. Location: meet at 9 am at the Pilot Rock Quarry trailhead. Contact Armand at 541-944-6621 or arebisch@blm.gov for more information.

Umpqua Valley

Visit www.umpquavalleynativeplants.com for more information on chapter activities or to be added to our e-mail list.

Willamette Valley

For program information, contact John Savage at 503-399-8615 or Alexandra Ninneman at 503-391-4145.

May 10 - 11, Saturday - Sunday, 10 am - 4 pm

Program: Silver Falls State Park Mother's Day Birding and Wildflower Weekend. NPSO members and park volunteers will lead wildflower walks (beginning at 11 am) throughout the two days. The event also includes bird walks, presentations, and photo hikes. Starting point for the walks is the Historic South Falls Lodge. For a full schedule of activities, registration forms, and overnight options, contact park staff at 503-874-0201 or visit www.oregonstateparks.org/park_211.php and click on the Events link.

May 15, Thursday, 6 pm

Field Trip: Bush Park Wildflower Walk.

John Savage will lead a walk to view wildflowers in Bush Park and Deepwood Estate. Nearly two dozen native wildflowers should be in bloom. Location: meet at the bottom of the Soap Box Derby Track in Bush Park, Salem. Free and open to the public.

May 31, Saturday, 6:30 am - 5 pm

Field Trip: Dog Mountain. John Savage will lead an all-day hike to view

wildflowers located in the Columbia Gorge on the Washington side. This is a difficult hike. Bring food and water. Free and open to the public. For more information and to register, please call 503-399-8615 after 7 pm.

William Cusick

Visit our Web site at <http://williamcusick.npsoregon.org> or contact Susan Geer at 541-963-0477 or Emelie Montgomery-Jones at 541-963-3339 for updates and general information. Chapter notices and communications are done primarily through a Google group. Members are reminded to contact Susan or Emelie if they want to be added to the Google group, or if they do not have internet access and want to be contacted by phone for events.



Wildflower Festival, continued from page 2

May 18, Sunday, 10 am - 5 pm
Mt. Pisgah Arboretum Wildflower & Music Festival. Co-sponsored by the Emerald Chapter of NPSO. Location: Mt. Pisgah Arboretum, Eugene. Information: call 541-747-3817, visit www.mountpisgaharboretum.com/festivals-events/wildflower-festival or see the listing in the Emerald Chapter Calendar.

June 20 - 21, Friday - Saturday, 9 am - 5 pm

Central Oregon Wildflower Show.

Co-sponsored by the High Desert Chapter of NPSO. Location: Sunriver Nature Center. Information: www.highdesertnpsoregon.org/central-oregon-wildflower-show.html.

July 4, Friday, 10 am - 4 pm

Irene Hollenbeck Memorial Wildflower Show.

Hosted by the Siskiyou Chapter of NPSO. Location: Ashland Community Center in Lithia Park. For more information, call Jim Duncan, 541-482-7629.

Early Bloomer in Northeast Oregon

by Mary Cooke

In April 1993, my son Sam (11 years old) scrambled far up the west face of our Mt. Fanny (Union County) with a friend. He had been learning native wildflowers with me since he was a baby and counted on me identifying a plant with only a verbal description. "It's bright blue and shaped like grape hyacinth. It was growing way high up on the mountain." I was stumped and amazed at anything blooming so early in the spring between 5000 and 6000 feet. I had four children to raise, one under two. The rugged terrain kept me from checking out Sam's find.

In April 2013, Sam was home for a few days. He took a "run" from our home at 3000 feet to the top of the rocky ridge far above Warm Creek. I

hiked as far as I dared on the steep face of Mt. Fanny. Turning back, I detoured into Warm Creek canyon, inching down the north-facing slope. Suddenly I was surrounded by bright blue blossoms peeking out under a blanket of snow. In that deep cold shade, I had finally found Sam's mystery flower.

At home I searched out the *Veronica* genus as it is often bright blue and an early bloomer. Before *Veronica* (in the Plantaginaceae family) I found *Synthyris* with one species (*missurica*) for our region. The description fit. On April 18, after waiting two days for the snow to melt, I went back to Warm Creek canyon at 1 pm. The flowers were in full sun and I was able to photograph them in their brilliant blue. A

tall snag helps me to locate them again in that vast wild country.



Mountain kittentails, Synthyris missurica, is one of the first plants to flower in its high elevation habitat.

ROBERT L. CARR, COURTESY OF OREGON FLORA PROJECT

OTHER EVENTS

Deschutes Land Trust

May 23, Friday, 9 am - noon
Wildflower Hike: Whychus Canyon Preserve.

Join Carol Moorehead for a moderate 3 mile hike. Soak up late spring as you explore ancient juniper groves and wildflower-studded slopes on your way to a scenic boulder overlook. Take in the bright green aspen groves along Whychus Creek and panoramic views of mountain peaks while enjoying this dramatic canyon. Bring snacks/lunch, water, and sturdy hiking shoes. Dress for the weather. This hike is also offered on May 31 and June 6. Registration is required; call 541-330-0017 or visit www.deschuteslandtrust.org/events.

Siskiyou Field Institute

May 29 - June 1, Thursday - Sunday

Course: Field Sketching. This

two-part workshop, taught by Linda Ann Vorobik, will give you several visual tools for learning plant identification. Part I: Habits and Leaves, is May 29-30 and Part II: Flowers and Fruits, is May 31-June 1. You'll have opportunities to master basic field sketching techniques while studying plant form in daily lab sessions and on field trips. Observing plants in habitat, you'll create a botanical journal filled with sketches and notes and end up with your own illustrated glossary from field-collected materials. Tuition: \$150 per class, \$250 for both Parts I and II. Location: Deer Creek Center, Selma. For registration or more information, call 541-597-8530 or visit thesfi.org.

Greenbelt Land Trust

May 24, Saturday, 9 am - 1 pm

Tour: Shrub/Tree Identification. Ed Jensen, noted tree expert will lead this interactive outing as participants learn to identify the trees and shrubs of the Willamette Valley. We will start with a workshop component, and transition

into a field identification walk at Bald Hill Farm in Corvallis. Fun for all ages! RSVP for this free outing to Jessica: jessica@greenbeltlandtrust.org. For more information, visit greenbeltlandtrust.org.

Oregon Wild

May 26, Monday, 9 am - 4 pm

Wildflower & Plant ID Hike: Wah-

cllella Falls/Tanner Creek. Wendell Wood will lead an extremely slow-going hike of two miles to identify and discuss area wildflowers. Hike through old-growth trees and mossy cliffs in a deep basalt side canyon in the Columbia Gorge Wilderness. Location: carpools depart from NE Portland on E. Burnside. To register, contact Marielle Cowdin, mc@oregonwild.org or 503-283-6343 ext. 213. For more information about Oregon Wild hikes, visit www.oregonwild.org/about/hikes_events.



Golden Paintbrush, continued from page 1
this fire-adapted landscape in upland prairies.

Willamette Valley upland prairie is now one of the most endangered ecosystems in the United States, and it is little wonder. The Willamette Valley is the largest inland river valley in the Pacific Northwest, gathering water from 11,000 miles of waterways as it flows to the Columbia. The rich, alluvial soils of the valley bottomland and ample rainfall provide our region with a prosperous, agriculturally productive landscape, and the Oregon Department of Fish and Wildlife currently estimates that over 41% of land area in the Willamette Valley is dedicated to agricultural production. The Willamette Valley also has 9 of the state's 10 largest cities, and is home to about 70% of the state's population. The prairie ecosystems of the Willamette Valley have suffered terribly at the hands of urban and agricultural development with, according to most estimates, less than 1% of prairie remaining.

Habitat destruction and land development, however, are only part of the reason behind golden paintbrush's disappearance from Oregon prairies. The late summer fires that once blanketed the countryside from the Cascades to the Coast Range were crucial for the suppression of woody trees and shrubs that threaten to deprive remnant native prairie grasses and forbs of the full sun they need to thrive. Non-native grasses, forbs, and shrubs have highly altered the prairie ecosystem by outcompeting native species, permanently altering habitat, and decreasing overall biodiversity.



KATIE JONES, IAE

Golden paintbrush's haustoria can be seen as dark spherical structures about 1 mm across connected to the larger roots of its host plant.

Considering that over 96% of land in the Willamette Valley is in private ownership with little priority placed on habitat restoration, the challenges to reintroducing a rare native plant in such a hostile environment can seem overwhelming. However, the U.S. Fish and Wildlife Service's mandate to establish new populations or augment existing populations of golden paintbrush has presented an opportunity for researchers and land managers to advance the field of restoration ecology and to help this species in particular.

Following the release of the Reintroduction Plan for Golden Paintbrush in 2004, a battery of common garden experiments was used to determine the success of various seed sources in a variety of field conditions. The lessons from those experiments helped determine that the most successful reintroduced golden paintbrush populations resulted from seed sources with an ecologically similar habitat to the recovery site, and that site selection and preparation prior to reintroduction can be just as important as seed sources (Lawrence and Kaye, 2009).

Armed with this information, IAE launched a full-fledged golden paintbrush reintroduction effort in 2010 on protected lands throughout the Willamette Valley, and the results so far have been encouraging. Currently, about 32,000 golden paintbrush plants are established in the Willamette Valley through a combination of seeding and plug planting. The benefits of this regimen are three fold. First, it is fulfilling the federal mandate to establish 20 stable populations throughout the species' historic distribution (to be deemed stable, a population must maintain a 5-year running average population size of at least 1,000 individuals). Second, field experiments are determining what factors contribute to the overall successful establishment of a stable population, helping land managers and policy makers craft informed decisions with regards to native flora conservation and restoration. And finally, golden paintbrush is a host plant for the endangered Taylor's checkerspot butterfly, and some of the plantings in Oregon could one day provide habitat

for this species.

In autumn 2013, seeds from grow-out facilities at the Natural Resources Conservation Service Plant Materials Center in Corvallis and Oregon State Correctional Institution in Salem were used to establish the most recent round of potential new populations on sites owned by Portland Metro and Benton County. Existing populations on sites managed by U.S. Fish and Wildlife were also augmented with seed from these nurseries. Seeding has its advantages, as a large amount of potential plants can be distributed over a wide area in a short amount of time. However, large, robust plants have resulted from growing golden paintbrush in plugs with native host plants like Roemer's fescue (*Festuca roemerii*) in a greenhouse, then out-planting in the spring. Plug planting also allows researchers to study golden paintbrush's interaction with a variety of host plants, while tracking success of individuals over time.

With the help of friends and volunteers, and funding from the U.S. Fish and Wildlife Service and Willamette Habitat Restoration, IAE is gearing up for a banner year for golden paintbrush reintroduction in the Willamette Valley. The momentum of this effort could carry the species to full recovery by the end of this decade, if not sooner. IAE executive director Tom Kaye, who personally spearheads the project, expects to plant about 2000 plugs in April and May before beginning the monitoring process – which can take up to three months to complete. Interested volunteers can send a message to info@appliedeco.org to participate. Good places to see golden paintbrush in Oregon include Baskett Slough and Finley National Wildlife Refuges, and the peak viewing time is in May.

Reference

Lawrence, B.A. and T.N. Kaye. 2009. Reintroduction of *Castilleja levisecta*: Effects of ecological similarity, source population genetics, and habitat quality. Restoration Ecology. doi: 10.1111/j.1526-100X.2009.00549.x

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Send completed form and full remittance to:

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P.O. Box 80714

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Membership is for the calendar year. New memberships enrolled after July 1 include the following year.

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Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and changes of address (include old address) should be sent to the Membership Chair. Changes of address may also be e-mailed to Membership@NPSOregon.org.

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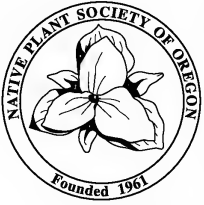
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Friends of the Oregon Flora Project

We have been enjoying the OFP's new wildflower identification app to help identify plants this spring—have you? The app is an attractive and easy-to-use subset of the information the Flora Project is assembling about all the plants of the state. It is one way we are fulfilling our mission to share botanical knowledge with a wide audience. We welcome your feedback about this new tool (see our website for purchase information) and how effectively it serves your needs.

A new version of the Checklist, Version 1.4, is now available on our website. The Atlas, Photo Gallery, and the mobile app reflect this nomenclature. As always, a table summarizing the changes between versions is posted on the Checklist webpage.

We are moving forward with preparations for publishing the first volume of the Flora of Oregon with OSU Press. Twenty years of OFP effort are crystallizing as we resolve design issues, finalize floristic manuscripts, and prepare introductory material for this much-needed reference. Your financial support to see the first volume to completion is needed, and is greatly appreciated.

Checks can be made payable to Agricultural Research Foundation, with "OFP" on the memo line. Please note the new address: Agricultural Research Foundation, 1600 SW Western Blvd Ste. 320, Corvallis, OR 97333.



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation and study of Oregon's native plants and habitats

VOLUME 47, NO. 5

JUNE 2014

NPSO Chapter Activities: A Look Back at 2013

It's time for the 2014 Annual Meeting, so here are some NPSO memories and accomplishments to share from last year. The William Cusick Chapter hosted the 2013 Annual Meeting in eastern Oregon, with field trips to the Elkhorns. Two chapters, High Desert and Klamath Basin, revitalized after being inactive for a while. High Desert Chapter Officers include Desiree Johnson, President; Susan Berger, Vice President; Christina Veverka, Secretary; and Sara Garvin, Treasurer. Klamath Basin Chapter Officers include Melissa Schroeder, President; Kim Elliot, Vice President; and Kerry Byrne, Secretary. Activities from other chapters and the Citizen's Rare Plant Watch committee are summarized below.

Citizen's Rare Plant Watch

Volunteers had a busy summer surveying for and collecting data on over 30 rare plant occurrences in Oregon. Outings took place all over the state including the Table Rocks in southwestern Oregon, Steens Mountain in eastern Oregon, bogs of the Cascades, and many in the scenic Columbia River Gorge. The Portland Chapter, organized by Jason Clinch, conducted numerous group outings and contributed many reports on species that have not been evaluated for a very long time. Julie Gibson, of Corvallis, visited many occurrences of *Navarretia willamettensis* and *Lathyrus holochlorus* in the Willamette Valley, contributing greatly to our understanding of the status of these rare species.

All data have been distributed to the Oregon Biodiversity Information

Center (ORBIC), the Oregon Flora Project, Oregon State Parks, and the Oregon Department of Agriculture. To read more about our program, visit: www.npsoregon.org/citizenswatch.html. We thank all of our volunteers whose energy and dedication have made this endeavor possible!

Cheahmill

The Cheahmill Chapter presented eight monthly programs for membership and public, with an average attendance of 25. New officers were elected in May and began duties during the summer. They are as follows: President, Bonnie Laux; VP for programs, Luke Westphal, Treasurer, Michal Wert; Secretary, the elected secretary took ill and was replaced by Past President Lisa Blackburn.

We continued to maintain the Native Plant Garden at the McMinnville

Public Library. The garden is mature now and is a wonderful contribution to the library grounds and the community. Our annual Wildflower Show was in late May and attracted approximately 100 people, with 15 NPSO members participating in the event. We gave a donation to the Oregon Flora Project. In response to a local issue, we formed a committee to work with Yamhill County Road Department to address roadside spraying, with the goal of preserving native plants that grow on the roadsides.

Our chapter is hosting the 2014 Annual Meeting.

Corvallis

The Corvallis Chapter had a
continued on page 8

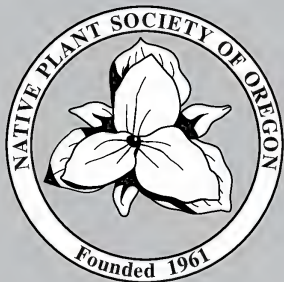


Look for Calochortus Coxii on the June 22 field trip to Bilger Ridge.

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOregon.org>

E-mail Discussion List

To join, send a message to majordomo@tardigrade.net, with the following in the body of the message: `subscribe npsos`

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or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

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Bulletin of the Native Plant Society of Oregon

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Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

New Stonecrop Species Name Will Honor Former NPSO Member

A new species of stonecrop is expected to be officially named this month for a former NPSO member. *Sedum kiersteadiae* will honor Julie Kierstead Nelson. She was a member of the Portland Chapter of NPSO while she lived in Oregon during the 1980s (then known as Julie Kierstead). Among other NPSO activities, she edited the NPSO *Bulletin*, contributing many of her line drawings to its pages. For a sample of her art, look at page 32 of the March 1991 *Bulletin*, online at http://npsoregon.org/bulletin/1991/NPSO_9103.pdf. She also worked at the Berry Botanic Garden and developed their seed bank for rare and endangered plants of the Pacific Northwest. Julie has spent the past few decades in California, as a forest botanist for the Shasta-Trinity National Forest. *Sedum kiersteadiae* is found in this forest, among rock outcrops of the Eddys (a subrange of the Klamath Mountains), hence the common name, Eddys stonecrop. This species was discovered by the *Carex* Working Group while they were conducting field work to identify another stonecrop.

Veva Stansell Botanical Area Nomination

Last year, NPSO and the Kalmiopsis Audubon Society nominated an area of the Rogue-Siskiyou National Forest to be the Veva Stansell Botanical Area. The proposed area is in the Coast Range east of Gold Beach, Oregon and hosts many species that have adapted to grow in its nutrient-poor serpentine soils, including the largest known population of the endemic Veva's Erigeron (*Erigeron stanselliae*). This is a small daisy-like flower, first collected by Veva in 1982, and recently named in her honor. Veva spent decades botanizing in Curry County and became an NPSO Fellow in 2001. A brief bio of her is on pages 27-28 of the 2002 *Kalmiopsis*, available online at www.npsoregon.org/kalmiopsis/kalmiopsis_v09.pdf.

This nomination is just the first step, as official designation of a Botanical Area must be done by the federal government. In the meantime, visit <http://vevasbotanicalarea.blogspot.com> to learn more about Veva Stansell, the significance of the proposed area, and possible mining/drilling in the nearby Red Flat area.

Share Your Annual Meeting Photos and Stories

Do you have fond memories of this year's Annual Meeting in and around Cannon Beach? Perhaps you saw intriguing species on a field trip, caught up with old friends, or volunteered to help the event run smoothly. Whether your memories are in text, photos, or illustrations, we invite you to share them in the *Bulletin*. NPSO armchair travelers are waiting for you to submit your articles and/or high resolution images to bulletin@NPSOregon.org. The submission deadline for the August/September *Bulletin* is July 24.



Fraxea umbratica may be in bloom on the June 29 and July 19 field trips in Lane County.

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NPSO CALENDAR

State Notes

NPSO Annual Meeting 2014

June 6 - 8, Friday - Sunday

The Cheahmill Chapter is hosting the 2014 Annual Meeting of the Native Plant Society of Oregon in Cannon Beach. The State Board meeting will be held 8:30 am – noon on Sunday, in the Haystack Garden of the Surfsand Resort. Information is in the February *Bulletin* and online at www.npsoregon.org/2014mtg.

Blue Mountain

For information on Blue Mountain Chapter call Jerry Baker, 541-566-2244.

June 14, Saturday, 9 am

Field Trip: Emigrant Springs. There will be a joint NPSO and Oregon State Parks Foundation field trip to Emigrant Springs State Park, about 20 miles east of Pendleton on Interstate 84. Bring lunch. Location: meet at 9 am in the County Health Department parking lot across from the Prodigal Son in Pendleton, or at 9:30 in the parking lot to the left inside the state park entrance.

Cheahmill

For more information, visit the chapter Web site, www.oregon-nativeplants.com. To be added to the e-mail list for upcoming programs and events, please contact cheahmillchapternpsocomcast.net.

Corvallis

For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Jordan Brown at co_president@NPSOregon.org or 253-820-3934.

There will not be a chapter meeting in June.

June 14, Saturday, 9 am - 2 pm

Field Trip: Marys Peak. A classic outing near the Corvallis area! Marys Peak is designated a Scenic Botanical Area

because of its rich, unique scenery and plants. Location: meet at the OSU Wilkinson Hall parking lot SW of The Beanery on 26th and Monroe. Contact Esther, 541-754-0893, for more details.

June 28, Saturday, 8 am

Field Trip: Iron Mountain Hike.

Spectacular wildflowers with over 200 species of vascular plants recorded across this botanically rich trail west

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. **BRING WATER AND LUNCH.** Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. A sample waiver form is available at http://npsoregon.org/documents/NPSO_waiver.pdf. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Dogs are not allowed. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. You must pre-register for all events. National Forests require a Northwest Forest Pass for some field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12. A trip leader checklist and sample waiver form are available at: <http://npsoregon.org/calendar.html>

of Santiam Pass. The all-day hike will be 5 miles through moderately difficult terrain. Bring good boots, lunch, and water. Meet at 8 am at the OSU Wilkinson Hall parking lot SW of The Beanery on 26th and Monroe. Contact Dan, 541-752-8860, for details.

Emerald

Visit the Emerald Chapter Web site at <http://emerald.npsoregon.org> to learn more about the latest chapter events, plant lists & botanical information about Lane County plants & the people who love them.

Meeting location: Conference Room at Lane County Mental Health, 2411 Martin Luther King Blvd. Turn off MLK Blvd. onto Scout Access Rd. across from Autzen and take the first left into the parking lot. The meeting room is on the right side as you face the building.

June 12, Thursday, 6-8:30 pm

Pot-luck/Meeting: Future Planning for Emerald Chapter Members. We will discuss ideas for programs for next year, think about meeting times and locations, explore projects that members may want to take part in, talk about how to make the Emerald Chapter more family friendly, and begin planning to host the NPSO Annual Meeting in the summer of 2016. We'll also get to know each other a little better and have fun at this pot-luck. Location: Conference Room at Lane County Mental Health, 2411 MLK Blvd. See above for directions. For more information, call 541-349-9999.

June 14, Saturday, 9 am

Field Trip: Horse Rock Ridge. Alan Curtis leads a 3-mile hike to a steep, rocky meadow high in the Coburg Hills north of Springfield. Enjoy wonderful views of the surrounding countryside and great botanical diversity. Bring water and lunch. Meet at South Eugene High School. Contact trip leader Alan Curtis, 541-345-2571, to register.

June 22, Sunday, 9 am - 1 pm

Field Trip: Coyote Spencer Wetlands.

Tour leaders are Dave Predeek of NPSO and Ryan Ruggiero of the McKenzie River Trust (MRT). The wetland reserve is several miles southwest of Eugene. MRT acquired 2 parcels totaling nearly 200 acres to protect rare plants and unique wetland habitat. For more information and to sign-up, call 541-345-2799.

June 29, Sunday, 8:30 am

Field Trip: Elk Camp Shelter and Nevergo Meadow. We will explore a complex of three wetlands north of Westfir. This is the northernmost site for the rare *Frasera umpquaensis*. A wide variety of other plants may be seen. Just a short ways from the trailhead, there's a historic shelter in magnificent old growth forest next to the Elk Camp Meadow. The other two meadows are along the road nearby, so this trip should be suitable for all ages with easy walking of no more than a level mile round trip. Contact trip leader Tanya Harvey at tanya@westerncascades.com or 541-937-1401 to register. For more info about the area, visit <http://westerncascades.com/tag/elk-camp-shelter>.

July 19, Saturday, 9 am - 4 pm

Field Trip: Upper Elk Meadows. Alan Curtis leads this hike, located 30 miles from Cottage Grove. Elevation of the meadow is 4,000 ft. Over 200 species of vascular plants have been identified here. We expect to see *Frasera umpquaensis* and several orchid species on this hike. Surrounding the meadow is an old-growth forest of *Abies amabilis*, *Abies grandis*, and *Pseudotsuga menziesii*. We will walk 1.5 miles through moist meadow. Wear boots and bring lunch and water. Location: Meet at South Eugene High School. Contact trip leader Alan Curtis 541-345-2571 to register.

High Desert

For information, visit the High Desert Chapter website: www.highdesertnpsoregon.org and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email highdesertnps@gmail.com.

June 20-21, Friday-Saturday

Event: Central Oregon Wildflower

Show. The High Desert Chapter is working on this wildflower show, to be held at the Sunriver Nature Center (www.sunrivernaturecenter.org). Volunteers will be needed to "harvest" specimens, help ID, and be on hand to answer questions during the two-day show. To help, please contact chapter vice president Susan Berger at suzyfishn@gmail.com.

Klamath Basin

This chapter has recently become active. For information, visit the Klamath Basin Chapter website: <http://klamathbasinnps.com> or contact the chapter president, Melissa Schroeder meljschroeder@gmail.com.

June 21, Saturday, 9 - 11 am

Tour: Gardening with Natives.

Todd Kepple will lead two tours of the Klamath County Museum native plant garden, highlighting locally indigenous plants that can be used in landscaping. More than 150 Klamath natives are growing at the museum. A 9 am tour will cover trees, shrubs, grasses and lichens. A 10 am tour will cover native annuals and perennials. Interesting plants at the museum include woolly mule's ears, sticky purple geranium, coiled locoweed and rock penstemon. Location: 1451 Main St. on the corner of Spring St. in downtown Klamath Falls. For more information, contact the museum at 541-883-4208.

June 28, Saturday, 9 - noon

Field Trip: Chiloquin District 5813/2242 Roads. Led by Missy Anderson, we will visit populations of special status plants on the Chiloquin District in several different habitat types. Several stops with some walking off-trail for short distances. Location: meet at the junction of Sprague River Hwy and Williamson River Rd., north of Chiloquin. From Chiloquin, turn north onto Sprague River Hwy and go about 5 miles to the signed junction with Williamson River Rd. (the junction is past the 5 mile marker and before the bridge over the Sprague River). For information, contact Missy Anderson at the Forest Service Chiloquin District Office: 541-783-4001.

Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at wusara96@yahoo.com.

June 14, Saturday

Pot-luck: Annual Chapter Pot-luck and Walk-about. We will gather at Sara Wu's home near Goldendale WA. For details, contact Sara, wusara96@yahoo.com.

The Mid-Columbia Chapter will not meet again until September 18. If you would like to help out with the planning of the 2015 NPSO Annual Meeting, contact Dell at rhodes@reed.edu.

Portland

If you would like to receive the chapter's semi-official e-mail newsletter, The Calochortus, e-mail Don Jacobson at donjphoto@gmail.com.

Facebook: Take a look at our Facebook page. Native Plant Society of Oregon-Portland-Chapter. It will have the most up-to-date information on hike and other events as well as great plant pictures.

Meeting location: The Portland Chapter meets the second Thursday of most months in the Metro Building at 600 NE Grand Ave., Portland. Enter from NE Irving St. on the north side of the building and walk across the upper plaza to the entrance (not the door on 600 NE Grand Ave.). An attendant will let you in and direct you to the meeting room upstairs. Meetings and programs begin at 7 pm.

June 11, Wednesday, 9 am

Field Trip: Larch Mt. Hike. This is a moderate to strenuous hike that consists of an approximately 6.4 mile loop with an elevation gain of 1,300' through areas of old growth forest. We hope to see a variety of wildflowers, including avalanche lilies that have emerged within the last several weeks from the recent snow melt. Contact Ron Klump at ronklump55@comcast.net for more information or to sign up.

June 12, Thursday, 7 pm

Program: On the Origins of New Plant Species: Pollination, Natural Selection, and Flower Color Evolution. Matt Streisfeld, assistant professor at the University of Oregon's Institute of Ecology and Evolution, will address the biological process of plant species formation (speciation), what we have learned (or not) since Darwin. He will describe his research, which studies the factors responsible for divergence of California bush monkeyflowers (*Mimulus aurantiacus*), a group of wildflowers which are at an early stage of speciation. Meeting location: Metro Building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

June 14, Saturday, 9 am

Field Trip: Cooper Mtn Hike. Join botanist Erin Riggs for a hike of Metro's Cooper Mountain Nature Park, with its Willamette Valley *Quercus garryana* ecological system. We will have the rare treat of going off-trail and expect to see White Rock Larkspur (*Delphinium leucophaeum*), Meadow Checkermallow (*Sidalcea campestris*), and more. Bring lunch, water, and appropriate clothing for hiking off trail. Parking is limited so we may carpool. Contact hike leader Roger Brewer, rogerbrewer@comcast.net, for details of meeting location(s). Be aware that Cooper Mountain is king of old growth poison oak.

June 25, Wednesday, 8 am - 5 pm

Field Trip: Silver Star Mountain. Joint trip with Washington Native Plant Society-Suksdorfia Chapter. The rocky soil and open meadows of Silver Star offer a wonderland of subalpine and alpine wildflowers not usually seen at this low (4,390') elevation. As we climb higher we should see *Xerophyllum tenax*, *Calochortus subalpinus*, *Erythronium montanum*, *Lewisia columbiana*, *Ligusticum grayi*, five *Penstemon* species, and more. The summit offers a five volcano view. This moderate hike is 5.6 miles round trip with 1,240' gain along a high ridge. Hiking boots and poles recommended;

bring lunch, water, binoculars, etc. High clearance vehicles recommended for the last 2.5 miles of road to trailhead. To register, contact leader Susan Saul: susan103saul@gmail.com or 360-892-5643 and indicate whether you can drive (and number of passengers you can take) or need a ride. Rides not guaranteed.

June 28, Saturday, 8:30 am - 5:30 pm

Field Trip: Lookout Mountain. We'll hike the loop from High Prairie up to the top of Lookout Mountain, down to Gumjuwac Saddle, and back up to High Prairie. A variety of forest, meadow, and rocky outcrops with lots of good plants. The hike is 7 miles with 2,000' gain. Round trip drive is 150 miles paved, 12 miles gravel. NW Forest Pass required. For more information or to sign up for the hike contact Ron Klump at ronklump55@comcast.net or 360-619-8892.

July 12, Saturday, 7 am (Portland) 9:30 am (Trailhead)

Field Trip: Browder Ridge. Browder Ridge is a neighbor to Iron Mt. We will hike 6.2 miles round trip with an elevation gain of about 1,500 ft. Depending on time and group energy, we may go another mile to the top of the ridge. Flowers we should see include *Anemone deltoidea*, *Lilium washingtonianum*, *Mimulus* spp., *Delphinium* spp., *Penstemon* spp., *Pedicularis bracteosa*, *Listera caurina* (synonym of *Listera banksiana*), *Corallorrhiza* spp., *Allotropa virgata*, and perhaps *Hemitomes congestum*. Bring good footwear, sunblock, lunch, and water. Return to Portland late afternoon. Location: meet at 7 am in Portland for carpooling or at 9:30 am at the Gate Creek Trailhead (see William Sullivan's book for a map and description or contact Tom Dyke). People wanting to stay overnight near Browder Ridge, join a possible hike on Friday, or sign up should contact Tom Dyke: tom-dyke1@gmail.com, 503-208-2341. For information about the Portland carpool and to sign up, contact Brent Miller, foliosus@foliosus.com, 503-382-7605.

Siskiyou

To join the Siskiyou Chapter email list: Send an email, from the address at which you want to receive announcements, to announce-join@siskiyou.npsoregon.org. No subject or message is required. You will get a confirmation email. If you would like to volunteer to lead a hike in 2014, make a suggestion, or provide feedback regarding the field trip program please contact Sasha Joachims at: sasharain71@gmail.com.

June 14, Saturday, 9 am

Hike: Hunter Creek Bog ACEC. The local hiking group Muscle Busters is sponsoring hikes to this unique treasure that is now threatened by the proposed nickel mining operation. This trip will be more of a meander than a hike as we poke around the bog looking for flowers. There are some rocks that need to be negotiated on the hike in and some wet spots in the bog to avoid. We will return to Gold Beach by lunchtime. Participants will be provided with flora and fauna lists. Wear waterproof hiking shoes, bring snacks and water, and be prepared for the weather. Location: meet at 9 am at the Event Center in Gold Beach or 8:15 am at Dr. Larsson's office, 414 Alder Street in Brookings, to car pool. Heavy rain will cancel. For more information contact Al Collinet at 541-412-8444.

June 22, Saturday, 9 am

Hike: Pilot Rock Proposed Trail Reroute. The BLM is proposing a trail reroute to ease the steep grade and minimize the "braided" impacts to the scree slope areas. Join Armand Rebisckhe, Ashland resource area botanist, to identify species and habitats of concern. We will discuss potential issues and ideas to minimize impacts from trail construction. This is an opportunity to learn what is there prior to trail building and discover if there are "pockets of interest" to avoid. Wear sturdy hiking shoes and bring sun protection, plenty of water, and snacks or lunch. Hiking will be moderate to difficult, with some off trail sections. Round trip mileage is 3-5 miles with 500-1000' elevation change. Location: meet at 9 am at the Pilot Rock Quarry trailhead. Contact

Armand at 541-944-6621 or arebisch@blm.gov for more information.

June 28, Saturday, 8:30 am

Hike: Early Season Flowers at Big Red Mountain. Hike the PCT to see the early season bloom. Expect to see Drummond's anemone, Oregon anemone, split-hair paintbrush, glacier lily, and Baker's violet, among others. Moderately strenuous, 5 miles round trip with nearly 1000' elevation gain. Terrain is mainly exposed serpentine rock, with some stretches of woodland. Bring water, lunch, hiking shoes, and sun protection. Location: meet in the Ray's Food Store parking lot in Talent. Leader: Alex Maksymowicz, 541-482-1964.

July 26, Saturday, 8:30 am

Hike: Big Red Mountain in the Summer. Hike the PCT to see the mid-summer bloom. Expect to see Siskiyou willowherb, Lee's lewisia, velvet lupine, woodland beardtongue, lanceleaf stonecrop, bear grass, and many other species. Moderately strenuous, 5 miles round trip with nearly 1000' elevation gain. Terrain is mainly exposed serpentine rock, with some stretches of woodland. Bring water, lunch, hiking shoes, and sun protection. Location: meet in the Ray's Food Store parking lot in Talent. Leader: Alex Maksymowicz, 541-482-1964.

Umpqua Valley

Visit www.umpquavalleynativeplants.com for more information on chapter activities or to be added to our e-mail list.

June 22, Sunday

Field Trip: Bilger Ridge, Myrtle Creek. This is a special yearly trip to the ridge to see our rare *Calochortus Coxii*, Cox's mariposa lily. We must have BLM permission to access this area. Ted Schattenkerk will be our leader. Please join us and bring a friend. Our field trips are open to the public. For meeting place and date confirmation, call Donna at 541-459-2821.

June 29, Sunday, 8:30 am

Field Trip: King Mountain. This area has never disappointed photographers,

hikers or plant enthusiasts due to the variety of plant species. Plants that we expect to see include several species of *Eriogonum*, *Sedum*, *Penstemon*, *Fritillaria*, some unusual *Phacelia*, and more. This is an easy stroll. Bring lunch, water and hiking gear. For meeting place and date confirmation, call Donna at 541-459-2821.

Willamette Valley

For program information, contact John Savage at 503-399-8615 or Alexandra Ninneman at 503-391-4145.

June 10, Tuesday, 7 - 8:30 pm

Program: Chapter Meeting. We will hold a planning session to consider ideas for next year's programs, field trips, and projects. Both members and non-members are welcome to attend the meeting. Location: Straub Environmental Learning Center, 1320 A Street NE, next to Olinger Pool, and near North Salem High. For more information, call John Savage at 503-399-8615 after 7 pm.

June 15, Sunday, 8 - 11:30 am

Field Trip: Kingston Prairie. This 52-acre Nature Conservancy Preserve southeast of Stayton is the best example of native prairie remaining in the central Willamette Valley. Both wet and dry habitats harbor native grasses and a host of wildflowers. To register and get carpooling instructions, call John Savage at 503-399-8615 after 7 pm. The hike is free and open to the public.

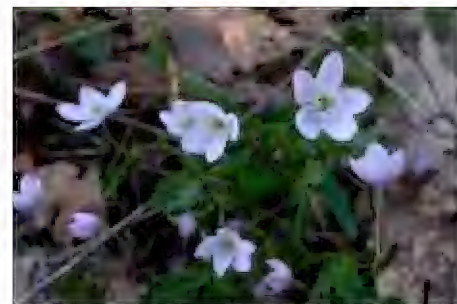
William Cusick

Visit our Web site at <http://williamcusick.npsoregon.org> or contact Susan Geer at 541-963-0477 or Emelie Montgomery-Jones at 541-963-3339 for updates and general information. Chapter notices and communications are done primarily through a Google group. Members are reminded to contact Susan or Emelie if they want to be added to the Google group, or if they do not have internet access and want to be contacted by phone for events.



Is the e-Bulletin for You?

We are pleased to offer the option to receive the *Bulletin* in electronic form. An email would be sent to you with the *Bulletin* attached as a PDF file and a link from which you can access the file on the Web. This e-Bulletin would replace the paper copy you receive every month in your mailbox. If you would like to receive the e-Bulletin rather than the paper copy, please email membership@NPSOregon.org from the email address at which you want to receive it. Also, include your name as it appears on the mailing label of your paper copy.



Hike Big Red Mountain on June 28 to look for Oregon Anemone.

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NPSO Chapter Search

The thirteen chapters of NPSO are hiding below. Can you find your chapter?

W N U M P Q U A V A L L E Y M J
K I I C H E A H M I L L T T K W
L T L A P M J W G R B P S C N X
A M T L T Q W X N N W A I M N T
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A D E M X M U D K C U J R G Q S
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A U H L J O I W L E U A P D T X
S M G D N L N S D T V L R M V Y
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N I H I Z R W R O I N O L M X B
L A W X Q W T C Z R Y L P L N T
M J Q V R G V T Q M P O R D E L
G M Y D X B M Y R P Z R U D G Y

April 2014 NPSO State Board Meeting Highlights

by Lisa Blackburn, NPSO Secretary

There has been interest in forming a South Coast Chapter out of Coos Bay; they are working on recruiting people, but there are not yet enough people to write by-laws. It was moved, seconded, and passed to give the potential Coos Bay chapter \$200 for start-up costs.

The Board agreed there should be a *Bulletin* article at the end of the year explaining the types of NPSO membership. A future Board meeting agenda item should be what constitutes a Family membership.

It was moved, seconded, and passed to approve two new field research grant requests and approve extension of two existing grants.

The Oregon Flora Project's Oregon Wildflowers app is now available for

purchase. It was agreed to put a link to the app on the NPSO website. It was moved, seconded, and passed to create an NPSO budget line item up to \$10,000 for a challenge grant in conjunction with the release of the wildflower app, for all donations to Oregon Flora Project between May 1 and October 1, 2014. This will be publicized in the *Bulletin*, Facebook and on the listserve.

The Board approved formation of a committee (Matt Morales, Jason Clinch, and Cyndi Dion) to research on-line NPSO membership payments. The Board also approved registration of NPSO with the Amazon Smile program. People who make purchases through Amazon Smile can give our name and 0.5% of their purchases will

go to NPSO. Shoppers would not have to be NPSO members to designate NPSO.

It was moved, seconded, and passed to provide complimentary NPSO memberships to Annual Meeting field trip leaders and banquet speakers. The use of the NPSO logo on posters for the May 10th "Bikes to Blooms" event in Eugene was also approved.

The Corvallis Chapter requested approval from the State Board to changes in their By-Laws: if the Chapter President steps down, other Chapter Board Members can appoint a new President. Chapter Board Members will also be allowed to serve more than two years. Motion approved by the State Board.

OTHER EVENTS

Columbia-Willamette Chapter of North American Rock Garden Society

June 17, Tuesday, 7:30 pm

Program: Rock Stars of the Western Cascades. Tanya Harvey will show photos of some of her favorite rock-loving plants that grow in Oregon's

Western Cascades. She has attempted to grow many of these in her rock garden in Fall Creek and will share a bit about her successes and failures. For more information about her plant explorations, visit her website at www.westerncascades.com. She will also bring some of her cards and bird ornaments for sale (see www.tanyaharvey-design.com). Meeting location: Smile Station, 8210 SE 13th Ave., Portland. For more information, visit www.cwn-args.org.

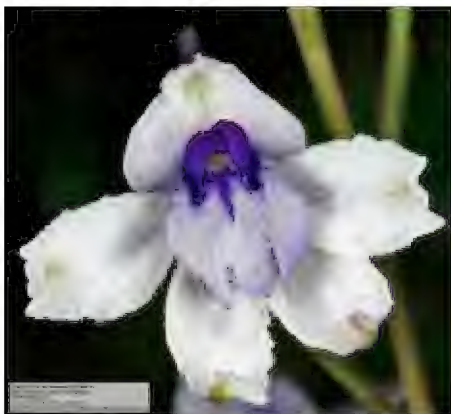
Ave., Portland. For more information, call 503-823-1671, email. info@leachgarden.org or visit www.leachgarden.org/classes-and-events/garden-events.

Siskiyou Field Institute

June 24 - 25, Tuesday-Wednesday

Workshop: *Carex* Identification.

This two-day workshop emphasizes southern Oregon sedges and is taught by Dr. Barbara Wilson, Dick Brainerd, and Nick Otting of The *Carex* Working Group. The first day will be spent in the lab, learning sedge morphology and terminology and keying fresh and dried material. Participants are encouraged to bring their own sedges to work on. The second day will be spent in the field and will emphasize sedge field identification and ecology. Workshop participants should have basic plant identification skills. Tuition: \$250. Location: Deer Creek Center, Selma. For registration or more information, call 541-597-8530 or visit thesfi.org.



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Delphinium leucophaeum can be found in the northern Willamette Valley, perhaps on the Cooper Mt. hike on June 14.

Leach Botanical Garden

June 14, Saturday

Tour: *Kalmiopsis* Discovery Day.

Explore the garden and discover Lilla's botanical discoveries including *Kalmiopsis leachiana*, her adventures in the Siskiyou Mountains, and her link to Leach Botanical Garden and its future. Join the free guided tour, 11am - noon, to learn about Lilla Leach: Pioneer Botanist. Location: Manor House at Leach Botanical Garden, 6704 SE 122nd

2013 Activities, continued from page 1

productive year in 2013. Our eight regular meetings were well attended, offering exciting and informative speakers. We offered eight outings this year, ranging from Drift Creek near the coast, east to Middle Pyramid and Iron Mountain, and home to local favorites such as Marys Peak and Finley Wildlife Refuge. We connected with the community through four additional events: Benton County's Insights into Gardening fair, OSU's Earth Day celebration, the Benton County Fair, and the Corvallis spring plant festival. The spring plant festival also served as a fundraiser through the sale of native plants.

We continued to maintain and update the native plant garden surrounding our meeting place, the Avery House, by maintaining old beds and planting new ones. We partnered with OSU professor Dr. Steve Cook to include students in the garden work, providing a service learning opportunity for his GEO 300 class, Sustainability for the Common Good. We are in the process of bringing new features into the garden so that it can be certified as wildlife habitat through the National Wildlife Federation.

Emerald

In January, the Emerald Chapter hosted the NPSO State Board Meeting at Lane Community College. Emerald Chapter elections were held in April. Mary Beth Averill was elected President; Kim Alexander, Secretary; and Jennifer Lippert, Vice President. Michael Hartman remains our Treasurer.

May was wildflower appreciation week/month, and the chapter co-sponsored a Botanical Illustration Workshop by Dr. Linda Vorobik as well as the annual Mount Pisgah Arboretum Wildflower Festival. The Emerald Chapter also staffed booths at the August Eugene Celebration in downtown Eugene and at the October Mushroom Festival at Mount Pisgah Arboretum.

A video showing of *Finding David Douglas*, hosted and co-sponsored by the Eugene Science Factory, was attended by about 90 people. Other

monthly programs included: Exploring the Flora of Oregon's Willamette Valley by Ed Alverson, the Row River Trail Project in Cottage Grove by Wes Messenger, and Drawing and Painting Wildflowers throughout the West by Dr. Linda Ann Vorobik. We commemorated International Field Botany Day on July 14 with a walk through the West Eugene Wetlands. We also led field trips to Coyote Spencer Wetlands (co-sponsored with McKenzie River Trust), Oregon Country Fair Wildflowers (co-sponsored with OCF), Mt. Pisgah's east slope, Horse Rock Ridge, and Upper Elk Meadows.

Mid-Columbia

The Mid-Columbia Chapter enjoyed presentations by seven speakers. These included NPSO members Erin Gray, Paul Slichter, Brent Miller, and Jake Hurlbert. We also learned about Northwest conifers from Martin Nicholson of the Hoyt Arboretum and about the restoration projects on the Klickitat and White Salmon Rivers from Jeanette Burkhardt. We showed the *Finding David Douglas* video, began the process of planning the 2015 annual meeting, and held our annual June pot-luck and outing.

A highlight of our year was a spring presentation on lichens given by Andrea Ruchty, botanist for the Gifford Pinchot National Forest. In the fall, Ruchty also led an informative and fun lichen identification hike. Two other field trips took us to the Catherine Creek/Major Creek area, one on a joint adventure with the Gorge Photography Club.

Several of our members were involved in buttercup surveys in the Columbia Hills, restoring and maintaining the Russ Jolley wayside on Highway 84 westbound near Mosier, monitoring the Dalles Mt. Ranch Prairie Restoration Project, and contributing to a variety of rare care and seedling/planting projects on both sides of the Columbia. The chapter contributed \$500 to the Rae Selling Berry Seed Bank at PSU and \$1,025 to the Oregon Flora Project - \$25 of which was

"in memoriam" for Marilyn Sarsfield.

Portland

The Portland Chapter offers monthly programs ten months of the year, with an average attendance of 30. Topics in the past year have included: Landscaping for Wildlife by Gaylen Beatty, Oregon's Native Orchids by Chris Howard, Palouse Prairie: Identifying Remnant Habitat Patches by Peggy O'Neill, Ethnobotany and Land Management Techniques by Bonnie Lyn Shoffner. We held 18 hikes in the past year, averaging 8 persons each. Several of these were devoted to specific species, including Grass ID, Lichen ID, and True Firs ID. Member Brent Miller held a two-day keying at the Tryon Creek Nature Center. A number of our members took an active role in the Citizen's Rare Plant Watch program, and one of our members (Jason Clinch) is the co-organizer of the program.

Willamette Valley

During 2013, the Willamette Valley Chapter offered classes and programs on wildflower identification, invasive weeds, restoring oak savannahs, and flower hotspots in Oregon.

We sponsored a tour of an oak savannah restoration and a rain garden tour. We also sponsored field trips to Bush Park, Kingston Prairie, Iron Mountain, Dog Mountain, Silver Falls, Jefferson Park, Herman Creek, and McNeil Point. Other activities included helping organize a weeding and planting party at the Straub Center Oak grove and helping fund eradication of Japanese Knotweed in the Polk County area.

Our chapter administers the Jean Davis and August Rockafellar Memorial Scholarship programs and awarded scholarships to OSU student Ashley Shaw and Willamette University Student Theresa Barosh.



NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

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Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Native Plant Society of Oregon

P.O. Box 80714

Portland, OR 97280

DUES include monthly *Bulletin* and *Kalmiopsis* when published.

Membership is for the calendar year. New memberships enrolled after July 1 include the following year.

☐ New

☐ Renewal

☐ Student – \$12

☐ Regular – \$25

☐ Family – \$35

☐ Sustaining – \$60

☐ Patron – \$125

☐ Life Membership – \$500

☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$25 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____

Leighton Ho Memorial Field Botany Fund \$ _____

Augusta Rockafellar Memorial Scholarship \$ _____

Rare and Endangered Plant Conservation Fund \$ _____

Friends of the Oregon Flora Project \$ _____

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and changes of address (include old address) should be sent to the Membership Chair. Changes of address may also be e-mailed to Membership@NPSOregon.org.

OFFICERS & COMMITTEE CHAIRS

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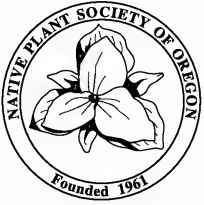
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 EMERALD (Eugene)..... Mary Beth Averill..... em_president@NPSOregon.org
 HIGH DESERT (BEND)..... Desiree Johnson hd_president@NPSOregon.org
 KLAMATH BASIN Melissa Schroeder..... kb_president@NPSOregon.org
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 WM CUSICK (La Grande) Susan Geer & Dick Austin..... susanmgeer@gmail.com (Susan Geer) & wc_president@npsoregon.org (Dick Austin)

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 CONSERVATION, WEST SIDE..... David Lebo president@NPSOregon.org; 503-622-3191 ext. 639
 FRIENDS OF OR FLORA PROJECT Linda Hardison..... 2082 Cordley Hall, Corvallis, OR 97331-2902; hardisol@science.oregonstate.edu; 541-737-4338
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 RARE & ENDANGERED PLANTS.... Erin Gray & Cecile Shohet..... ecgray830@gmail.com, cshohet@gmail.com

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Friends of the Oregon Flora Project

Two opportunities to support the Oregon Flora Project

We have a new challenge drive that will give your contribution to the OFP twice the value! The state level of NPSO is generously offering to match up to \$10,000 in contributions made through October. As you know, all salaries and operating expenses for the OFP come from donations and grants. Your gifts will allow us to maintain our existing staffing and stay on schedule for the Spring 2015 publication of Volume 1 of

the *Flora of Oregon*, and to maintain our website with the latest information. Please make your contribution now!

We will be having a silent auction at the NPSO Annual Meeting in Cannon Beach. Look for our table, and bid on some great items you can take home. All proceeds go to support the OFP.

Contributions can be made online at our website (oregonflora.org/supportOFP.php), or with a check made payable to Agricultural Research Foundation (include "OFP" on the memo line) and mailed to: Agricultural Research Foundation, 1600 SW Western Blvd Ste. 320, Corvallis, OR 97333.



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation and study of Oregon's native plants and habitats

VOLUME 47, NO. 6

JULY 2014

Who's in that Name? Barton, McMahon, and Pursh

by Al Schneider

This article originally appeared in Aquilegia, Volume 33, Number 5 (Winter 2009), the newsletter of the Colorado Native Plant Society.

Following are brief biographies of Barton, McMahon, and Pursh, three eminent botanists of the early nineteenth century, who knew each other, worked together at times, and had connections to the Lewis and Clark Expedition.

Benjamin Smith Barton (1766-1815) was a physician, professor of botany at the University of Pennsylvania, author of *Essays Towards a Materia Medica of the United States* (1798-1804), the first book on American medicinal plants, and author of *The Elements of Botany* (1803), the first American botany textbook. Barton was a teacher and benefactor of many botanists including Frederick Pursh and Thomas Nuttall. Thomas Jefferson held Barton in such high regard that he asked him to teach botanical collecting techniques and taxonomy to Meriwether Lewis prior to the Lewis and Clark Expedition. Barton actually wanted to participate in the Expedition, but he was 37 years old – considered much too old.

Bernard McMahon (1775-1816) was a nurseryman widely respected for his horticultural knowledge. McMahon is credited with publishing the first seed catalog in the United States and the first information about landscape design. Some of the Lewis and Clark Expedition planning was done in his home. He was instrumental in getting Frederick Pursh to work on the

Expedition's botanical collection, and he germinated and distributed seeds collected on the Expedition. In 1806, he wrote *The American Gardener's Calendar*, which became the standard gardening authority in America, going through eleven editions until 1857. It is still available. McMahon and Jefferson corresponded regularly. McMahon forward the newest vegetable and flower varieties to Jefferson, and Jefferson considered McMahon's *Calendar* his horticultural Bible. Thomas Nuttall honored McMahon in the genus *Mahonia* [*Mahonia aquifolium*, a synonym of *Berberis aquifolium* and

commonly known as Oregon grape, was designated as the Oregon State Flower in 1899], a new genus collected by Meriwether Lewis on the Lewis and Clark Expedition.

Frederick Pursh (1774-1820) was a botanist and plant collector who came to the United States from Germany in 1799 and who, by 1805, had begun collecting for Benjamin Barton. Barton, as noted above, had, at the request of President Jefferson, given botanical training to Lewis, but after the Lewis and Clark Expedition Barton was unable, because of his health and his predisposition to procrastination, to fulfill his responsibility to work on cataloging and describing Lewis's botanical collection. Both Barton and Jefferson's friend, Bernard McMahon, then suggested having Frederick Pursh organize

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Mahonia aquifolium, genus named for Bernard McMahon. Illustration from Flora Americae Septentrionalis by Frederick Pursh.

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOoregon.org>

E-mail Discussion List

To join, send a message to majordomo@tardigrade.net, with the following in the body of the message: `subscribe npsos`

General Business Address

P.O. Box 902
Eugene, OR 97440

or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

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The submission date is the 10th of each month for the following month's issue except for the Aug/Sept issue which is July 24 and the Dec/Jan issue which is November 24. Send submissions by e-mail to bulletin@NPSOoregon.org.

Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Challenge Grant Supporting the Oregon Flora Project

The Oregon Flora Project is fortunate to be a program regularly supported by the Native Plant Society of Oregon. When the late Scott Sundberg approached NPSO in 1994, seeking support to develop a new flora for Oregon, the organization enthusiastically agreed to sponsor the OFP. That decision has led to two decades of support in the form of funding, volunteerism, and the sharing of information.

NPSO is again demonstrating its commitment to the OFP by offering up to \$10,000 in a challenge fund drive. All contributions made to the OFP between now and December 31 will be matched up to this amount. Challenge drives multiply the impact of all donations. They also demonstrate that both NPSO, as the match provider, and the contributing members are taking positive action to fulfill the Society's mission to support the study of Oregon's native plants and habitats.

With your support, the Oregon Flora Project will:

- Publish Volume 1 of the *Flora of Oregon* in Spring 2015
- Expand the content of the online Atlas and Photo Gallery
- Update the Oregon Wildflowers mobile app
- Support botanical appreciation and exploration by providing access to current information

Contributions can be made using PayPal on the OFP website, or with checks payable to either the Agricultural Research Foundation (see the back page for details) or NPSO. Please give your generous support to this important partner of the NPSO!



New NPSO Members

Please welcome these new members who joined NPSO between November 24, 2013 and June 15, 2014.

Cheahmill
Carrey Reynolds

Corvallis
Cathy Frischmann
John Miskella
Melissa Newman
Priscilla Spears
Christine Stanley

Emerald
Matthew Bayly
August Jackson
Alicia McGraw
Bettina Norden
Kathleen G. Soza

High Desert
Yvonne Babb
Duncan Brown
Toni Colotte
Ryan Franklin

Dayng Galash
Karen M. Garber
Marilynne Keyser
Susan Manley
Lyn Mattei
Patty Meehan
Edward Mierjeski
Kathy Parenteau
Dinah Russell
Amanda Stamper
Mary Thompson
Signe Timm

Klamath Basin
Tonia Allenger
Dewey J. Moore
Terry Smith

Members At Large
Jean Adamson
Diane & Dave Bilderback

continued on page 5

NPSO CALENDAR

State Notes

State Board Meeting

October, Date TBD

The next meeting of the NPSO State Board will be in Eugene, and will likely be scheduled for October 18 or 25.

Blue Mountain

For information on Blue Mountain Chapter call Jerry Baker, 541-566-2244.

Cheahmill

For more information, visit the chapter Web site, www.oregon-nativeplants.com. To be added to the e-mail list for upcoming programs and events, please contact cheahmillchapternpsocomcast.net.

Corvallis

For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Jordan Brown at co_president@NPSOregon.org or 253-820-3934.

July 20, Sunday, 8:30 am

Field Trip: Middle Santiam Area Old-Growth Hike. Our destination will be either Scar Mountain trail (FS #3402) or South Pyramid Creek (FS #3403). Expect to enjoy 5-6 miles of mostly moderate grades to level traverses, old growth, meadow openings, and superb views! Bring lunch and normal hiking gear, including trekking poles if you use them. Location: meet at the OSU parking lot north of Burt Hall, which is west of the Beanery and bordered by 27th St. and Arnold Way. We will depart from Corvallis at 8:30 am. For more information (destination will be decided by the week of the hike), contact Loren Russell at 541-752-7558 or loren.russell@comcast.net.

August 9, Saturday, 7 am

Field Trip: Middle Pyramid Hike. We will hike two miles up to Middle Pyramid to see gentians and other wildflowers. It is a difficult hike toward the end. Wear sturdy shoes and appropriate

clothes. Bring a lunch and water. An alternative hike from the same trail head is the easy and beautiful South Pyramid trail. Location: meet at the OSU Wilkinson Hall parking lot across from The Beanery at 26th and Monroe for a 7 am departure. For more information, contact Louise at 541-753-0012 or patch1L@aol.com.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. **BRING WATER AND LUNCH.** Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. A sample waiver form is available at http://npsoregon.org/documents/NPSO_waiver.pdf. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Dogs are not allowed. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. You must pre-register for all events. National Forests require a Northwest Forest Pass for some field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12. A trip leader checklist and sample waiver form are available at: <http://npsoregon.org/calendar.html>

Emerald

Visit the Emerald Chapter Web site at <http://emerald.npsoregon.org> to learn more about the latest chapter events, plant lists & botanical information about Lane County plants & the people who love them.

July 19, Saturday, 9 am - 4 pm

Field Trip: Upper Elk Meadows.

Alan Curtis leads this hike, located 30 miles from Cottage Grove. Elevation of the meadow is 4,000 ft. Over 200 species of vascular plants have been identified here. We expect to see *Frasera umpquaensis* and several orchid species on this hike. Surrounding the meadow is an old-growth forest of *Abies amabilis*, *Abies grandis*, and *Pseudotsuga menziesii*. We will walk 1.5 miles through moist meadow. Wear boots and bring lunch and water. Location: Meet at South Eugene High School. Contact trip leader Alan Curtis 541-345-2571 to register.

August 8, Friday, 8:30 am - 4:30 pm

Field Trip: Tour of the Fish Lake Re-mount Station. In the upper McKenzie River drainage, caretaker Jim Denny takes us on a tour of an historic cluster of log cabins constructed more than a hundred years ago. Afterwards, botanist Jenny Lippert leads a walk down the old Santiam Wagon Road and through Fish Lake Meadow. Bring a lunch, water, sunscreen, and comfortable walking shoes. Location: meet at 8:30 am at South Eugene High School. We'll return to Eugene by 4:30 pm. For more information and to register, call Jenny at 541-225-6440.

High Desert

For information, visit the High Desert Chapter website: www.highdesertnpsoregon.org and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email highdesertnps@gmail.com.

Klamath Basin

This chapter has recently become active. For information, visit the Klamath Basin Chapter website: <http://klamathbasin-nps.com> or contact the chapter president, Melissa Schroeder pres@klamathbasinnps.com.

July 12, Saturday, 9 am - noon

Tour: Chiloquin Native Plant Garden. Joan Rowe will lead this tour to see native plants along the canal, native plants used as ornamentals in a garden, and an unirrigated 1/3 acre area that is being converted from weeds to native plants. Location: meet at 39560 Modoc Point Rd., just north of the Wood River Wetland parking area. Please drive all the way in and park in the circular section of the driveway. From Klamath Falls, take 97 north to Modoc Point Rd. (signed as Williamson River Resort Area turn off). Follow Modoc Point Rd for 10 miles. From Chiloquin, take 422 north to its junction with Modoc Point Rd., turn left and drive about 1 mile. The house is located on the Wood River Canal. For information, contact treas@klamathbasinnps.com.

July 26, Saturday, 9 am - noon

Field Trip: Big Meadow. Led by Sarah Malaby, we will explore the Big Meadow area, which provides habitat for 4 species of rare plants and an abundance of native shrubs and wildflowers. Easy to moderate walking. Location: meet at the junction of Hwy 140 west and Forest Road 3651. From Klamath Falls, take Hwy 140 west, turn right (north) at the sign for the Cold Springs Trailhead (approx 3.5 miles past the turn off to Rocky Point). From there we will car pool to the meadow, with stops along the way. For information, contact treas@klamathbasinnps.com.

Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at wusara96@yahoo.com.

The Mid-Columbia Chapter will not meet again until September 18. If you would like to help out with the

planning of the 2015 NPSO Annual Meeting, contact Dell at rhodes@reed.edu.

Portland

If you would like to receive the chapter's semi-official e-mail newsletter, The Calochortus, e-mail Don Jacobson at donj-photo@gmail.com.

Facebook: Take a look at our Facebook page. Native Plant Society of Oregon-Portland-Chapter. It will have the most up-to-date information on hike and other events as well as great plant pictures.

Meeting location: The Portland Chapter meets the second Thursday of most months in the Metro Building at 600 NE Grand Ave., Portland. Enter from NE Irving St. on the north side of the building and walk across the upper plaza to the entrance (not the door on 600 NE Grand Ave.). An attendant will let you in and direct you to the meeting room upstairs. Meetings and programs begin at 7 pm.

July 12, Saturday, 7 am (Portland) 9:30 am (Trailhead)

Field Trip: Browder Ridge. Browder Ridge is a neighbor to Iron Mt. We will hike 6.2 miles round trip with an elevation gain of about 1,500 ft. Depending on time and group energy, we may go another mile to the top of the ridge. Flowers we should see include *Anemone deltoidea*, *Lilium washingtonianum*, *Mimulus* spp., *Delphinium* spp., *Penstemon* spp., *Pedicularis bracteosa*, *Listera caurina* (synonym of *Listera banksiana*), *Corallorrhiza* spp., *Allotropa virgata*, and perhaps *Hemitomes congestum*. Bring good footwear, sunblock, lunch, and water. Return to Portland late afternoon. Location: meet at 7 am in Portland for carpooling or at 9:30 am at the Gate Creek Trailhead (see William Sullivan's book for a map and description or contact Tom Dyke). People wanting to stay overnight near Browder Ridge, join a possible hike on Friday, or sign up should contact Tom Dyke: tom-dyke1@gmail.com, 503-208-2341. For information about the Portland carpool and to sign up, contact Brent Miller,

foliosus@foliosus.com, 503-382-7605.

August 10, Sunday, 9 am

Field Trip: Salmon River. Trip length and duration will be determined by the group's interest but assume medium length, small to medium elevation gain, and a full day or nearly full day trip. Because less will be in bloom in August, we will also enjoy the beautiful river and mountain scenery. NW Forest Pass required for each vehicle. For more information, contact Roger Brewer at rogerbrewer@comcast.net or 503-789-5027.

August, Date and Time TBD

Field Trip: Boulder Lake/Bonnie Meadows. This hike in the Mt. Hood National Forest will likely be in late August. For more information, check the NPSO website, Portland Chapter, or contact Roger Brewer, rogerbrewer@comcast.net or 503-789-5027. The hike to Boulder Lake is short and easy. From there we will continue towards Bonnie Meadow (5 miles RT, 1,100 ft. elevation gain) but may not get all the way. If huckleberries are ripe, we will stop along the trail to pick some. Driving time from Portland is about 1:45.

Siskiyou

To join the Siskiyou Chapter email list: Send an email, from the address at which you want to receive announcements, to announce-join@siskiyou.npsoregon.org. No subject or message is required. You will get a confirmation email. If you would like to volunteer to lead a hike in 2014, make a suggestion, or provide feedback regarding the field trip program please contact Sasha Joachims at: sasharain71@gmail.com.

July 4, Friday, 10 am - 4 pm

Wildflower Show: Irene Hollenbeck Memorial. This annual show is coordinated by the Siskiyou Chapter and features over 300 species of flowers from the volcanic Cascades, the much older Siskiyou, and the valleys in between. Free admission. Location: Ashland Community Center, 59 Winburn Way (across from Lithia Park).

July 26, Saturday, 8:30 am

Hike: Big Red Mountain in the Summer. Hike the PCT to see the mid-summer bloom. Expect to see Siskiyou willowherb, Lee's lewisia, velvet lupine, woodland beardtongue, lanceleaf stonecrop, bear grass, and many other species. Moderately strenuous, 5 miles round trip with nearly 1000' elevation gain. Terrain is mainly exposed serpentine rock, with some stretches of woodland. Bring water, lunch, hiking shoes, and sun protection. Location: meet in the Ray's Food Store parking lot in Talent. Leader: Alex Maksymowicz, 541-482-1964.

Umpqua Valley

Visit www.umpquavalleynativeplants.com for more information on chapter activities or to be added to our e-mail list.

Willamette Valley

For program information, contact John Savage at 503-399-8615 or Alexandra Ninneman at 503-391-4145.

July 12, Saturday, 7 am

Field Trip: Iron Mountain. Enjoy one of the best wildflower hikes in Oregon. Iron Mountain (near Sweet Home) has over 300 different species of flowers amid stands of trees and meadows. John Savage will lead the all-day hike over a seven-mile loop with elevation gain. Bring food and water. Free and open to the public. For more information and to register, call 503-399-8615 after 7 pm.

William Cusick

Visit our Web site at <http://williamcusick.npsoregon.org> or contact Susan Geer at 541-963-0477 or Emelie Montgomery-Jones at 541-963-3339 for updates and general information. Chapter notices

and communications are done primarily through a Google group. Members are reminded to contact Susan or Emelie if they want to be added to the Google group, or if they do not have internet access and want to be contacted by phone for events.

August 1, Friday, 10 am-2 pm

Field Trip: Wildflower Hike. As part of "Celebrating 50 Years of Wilderness" on Wallowa-Whitman National Forest, there will be a wildflower hike, led by a local botanist. Location: meet at the Main Eagle trailhead. Check the forest website for details: www.fs.usda.gov/detail/wallowa-whitman/news-events/?cid=STELPRD3802707 or call the local Ranger District at 541-426-5546.

Volunteer Opportunity: Our chapter continues to work on weeding and re-vegetating Gangloff Park in La Grande. If you would like to help, call 541-963-0477.

New Members continued from page 2

Stephen Brown
Robert Carl
Alexa Carleton
Rebecca & Martin Chaney
Bill Dochnahl
Bruce & Diane Follansbee
Christina L. Geierman
Darota Haber-Lehigh
Justy Leppert
Robin McCreery
Myra Monte Gerdemann
Edward Nichols
Michael & Sally Noack
Al Solomon

Mid-Columbia
Lillian Osborne

Portland
Mary Ellen Andre
Robert Baker
Laura J. Barr
Carol Benskin
David Clay
Julie Cudahy
Kevin Geraghty
Laura Graham
Jamie Gray
Virginia Hendrickson

Jan Jeddeloh
Robin Jensen
Dawn Kropp
Jeff Lesh
Matthew Paroulek
Luan Pinson
Charles J. Schubert
Sharon E. Streeter
Thomas Torok

Siskiyou
Bridgette Cuffe
Kevin M. Culhane
Gary Grotian
Julie & Ron Kantor
Peter Kleinhenz
Meghan Pietila
Joyce A. Woods

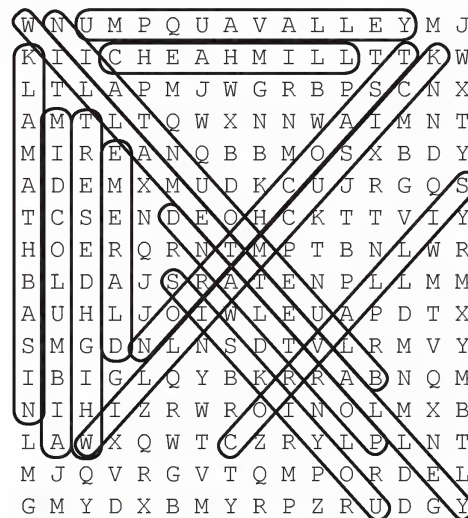
Umpqua Valley
Bergen Brell
Alysia Gaye
Tracy R. Pope
Bruce Sherman

Willamette Valley
Timothy Bruce
Wayne Estes
Ken Hale
Vicki & John Jorgenson

Wm. Cusick
Mary K. Cooke
Tim & Sharon Hoffnagle
Dana Skelly

NPSO Chapter Search Answers

The thirteen chapters of NPSO from June's puzzle are circled below



Who's in that Name?, continued from page 1 and describe the collection. In 1807 Lewis met Pursh, was very impressed, and paid Pursh about \$70 to begin working on the botanical collection. Pursh completed his work within a few years, but tragically, Lewis committed suicide in 1809, having himself written almost nothing about the Expedition and its botanical collection.

It is still not known what happened to all of the Lewis botanical collection after Pursh documented and described it. We know that Pursh returned most of the collection to McMahon and that Pursh took about four dozen specimens to England where he intended to combine information about them with his own collections and the work of many others in his own new publication on the flora of

North America. Pursh apparently did not properly credit those whose plant collections he used in his new book, and he actually took credit for finding plants that others had discovered. This led him into numerous conflicts, especially with Thomas Nuttall, whose botanical work Pursh pilfered.

Pursh was an alcoholic and apparently only the help of his friends kept him at the task of publishing his new flora. In 1814 he published *Flora Americae Septentrionalis, or a Systematic Arrangement and Description of the Plants of North America*, which included descriptions of 132 specimens from the Lewis and Clark Expedition. For nearly forty years this two-volume work was the standard botany of North America. It was superseded by John Torrey and Asa Gray's *Flora of North America*.

All but a few of the Lewis and Clark Expedition's botanical specimens which Pursh had taken with him to England were eventually returned to the United States. The total number of Expedition plants known now is about 232, all but eleven (those in the Kew Gardens Herbarium in London) are in the Academy of Natural Sciences in Philadelphia – where both Lewis and Pursh began their work on the plants that were collected on the Expedition.

Pursh died in Canada – young, drunk, impoverished and forgotten. The genus *Purshia* was named by Augustin de Candolle, and in Colorado we have two beautiful *Purshia* species: cliffrose and bitterbrush, *Purshia stansburyana* and *Purshia tridentata* [The latter species is also native to Oregon].



Citizen Science Project Tracks Pollinators

A new website, www.bumblebeewatch.org, aims to track and conserve North America's bumble bees. As pollinators, these bees serve an important role in the food cycle of our ecosystem. Unfortunately, bumble bees may be in decline due to habitat loss, insecticide use, disease, and climate change.

Bumble Bee Watch was created to enable citizen scientists to help by uploading photographs of bumble bees they see in their local areas. You may already have pictures of these bees, pollinating the native plants you photographed. Tips on how to photograph and ID bumble bees are on the website, though species identification is not necessary and will be verified by experts. The website also provides information about bumble bee ecology, ongoing conservation efforts, and a way to connect with other volunteers.

The information gathered will help locate rare or endangered populations of bumble bees, aid researchers in determining the status and conservation needs of bumble bees, and track species whose status is less well known.

Bumble Bee Watch is a partnership between the Xerces Society, Wildlife Preservation Canada, the University of Ottawa, the Montreal Insectarium, the Natural History Museum in London, and BeeSpotter.



Updated Sedges Guide Published

The second edition of the *Field Guide to the Sedges of the Pacific Northwest*, written by members of the *Carex* Working Group, is now available. Updates include eight additional species documented in the region since the guide was first published, along with an improved identification key, updated nomenclature and taxonomy, revised range maps, and improved illustrations. As with the first edition, this is a comprehensive field guide that contains identification keys, descriptions, more than 650 color photographs, and distribution maps for each species, providing users with helpful tools and tips for identifying the plants in the challenging *Carex* genus. Information about sedge ecology, habitat, management and restoration, ethnobotanical uses, and propagation enhances the guide's utility.

Co-author Barbara Wilson details some of the revisions as well as challenges of adhering to a set page count on the OSU Press blog. To find out which sections were left out or reformatted, if *Carex tiogana* made it into the second edition, and purchase copies online, read Barbara Wilson's blog post at:

<http://osupress.oregonstate.edu/blog/fitting-it-in-making-room-for-sedges-of-pacific-northwest%E2%80%94all-of-them>.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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Send completed form and full remittance to:

Native Plant Society of Oregon

P.O. Box 80714

Portland, OR 97280

DUES include monthly *Bulletin* and *Kalmiopsis* when published.

Membership is for the calendar year. New memberships enrolled after July 1 include the following year.

☐ New

☐ Renewal

☐ Student – \$12

☐ Regular – \$25

☐ Family – \$35

☐ Sustaining – \$60

☐ Patron – \$125

☐ Life Membership – \$500

☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$25 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____

Leighton Ho Memorial Field Botany Fund \$ _____

Augusta Rockafellar Memorial Scholarship \$ _____

Rare and Endangered Plant Conservation Fund \$ _____

Friends of the Oregon Flora Project \$ _____

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and changes of address (include old address) should be sent to the Membership Chair. Changes of address may also be e-mailed to Membership@NPSOregon.org.

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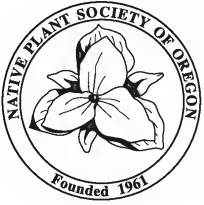
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Friends of the Oregon Flora Project

We have recently updated the content of our online tools. We have added over 10,000 new plant distribution records to the Oregon Plant Atlas. This includes observations, several thousand new specimens deposited at the Oregon State University Herbarium, and the complete Douglas County Museum Herbarium. There are also close to 6,000 new images added to the Photo Gallery, further expanding the number of species represented by a photograph.

The Oregon Flora Project is developing a comprehensive reference about the plants of Oregon that includes information shared via our website, and through the publication of a new, two-volume *Flora of Oregon*. Funding for the OFP comes exclusively from competitive grants and donations from organizations and individuals. Your support is a critical part of our budget.

Contributions can be made online using PayPal (www.oregonflora.org/supportOFP.php). Checks can be made payable to Agricultural Research Foundation (include "OFP" on the memo line) and mailed to: Agricultural Research Foundation, 1600 SW Western Blvd Ste. 320, Corvallis, OR 97333.



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation and study of Oregon's native plants and habitats

VOLUME 47, No. 7

AUGUST/SEPTEMBER 2014

2014 Annual Meeting Hosted by the Cheahmill Chapter in Cannon Beach

by Karen Sturgeon, Cheahmill Chapter

The sun shone brightly on the Friday afternoon in early June when members gathered at the Surfsand Resort's beautiful Haystack Garden in Cannon Beach for the 2014 NPSO Annual Meeting hosted by the Cheahmill Chapter. Anticipation was high that the weather would hold for the field trips on Saturday when about 125 of us headed out along the north coast to see coastal dune prairies, sea cliff meadows, rocky balds, ancient forests, swamps, marshes, fens and more – and it did! This was the first time NPSO had held an annual meeting on Oregon's north coast. Knowledgeable volunteers from the local area – representing such institutions as the North Coast Land Conservancy, the National

Park Service, The Nature Conservancy, Linfield College, Clatsop Community College, and Oregon State University – graciously stepped up to the plate to lead field trips.

At the end of the day, guests gathered for a few hours of social time in the Surfsand Ballroom and to peruse the many beautiful and interesting vendor displays of botanical art and photography by Linda Vorobik, Susan Berger and Dorota Haber-Lehigh. Linda Hardison treated us to a silent auction, which raised nearly \$500 for the Oregon Flora Project; Erin Gray of the Institute for Applied Ecology presented a poster describing their worthy efforts to conserve and restore native species and habitats; and the Cannon Beach Book Company provided a table full of books of interest to NPSO members.

The banquet program began with a welcome from Bonnie Laux, Cheahmill Chapter President, and, following a hearty meal, Dave Dobak presented awards to three Fellows, Bruce Newhouse, Jim Duncan (*in absentia*) and Cindy Roché. In appreciation for her 14 years of service to the Society as editor-in-chief of *Kalmiopsis*, Cindy was presented with a beautifully framed print of Siskiyou iris by the late Bonnie Hall. Dan Luoma broke tradition when, instead of using Peck's *Manual of the Higher Plants of Oregon* to install new officers, he used Mark Turner's recently published book on the *Trees and Shrubs of the Pacific Northwest* and, to take us into the future, on top of which he placed his smart phone with the Oregon Flora Project App, *Oregon Wildflowers!*

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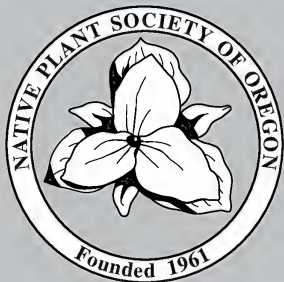


KAREN STURGEON

The group at the Neahkahnie sea cliffs field trip led by Kathleen Sayce.

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOregon.org>

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To join, send a message to majordomo@tardigrade.net, with the following in the body of the message: subscribe npsos

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The submission date is the 10th of each month for the following month's issue except for the Aug/Sept issue which is July 24 and the Dec/Jan issue which is November 24. Send submissions by e-mail to bulletin@NPSOregon.org.

Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Willamette NF Road Investment Strategy

by Jenny Lippert, Willamette Forest Botanist

The Willamette National Forest is developing a road investment strategy – how to best invest limited road maintenance funds to maintain the access needs of the public and resource managers while also protecting and restoring landscapes. NPSO members can help us identify Special Places they feel should remain accessible by using an online mapping tool available at <http://go.usa.gov/KqGH>. The Emerald Chapter of NPSO will host a speaker to explain more about the process in the fall of 2014. If you want to stay informed, you can get on the mailing list by contacting Matt Peterson at mbpeterson@fs.fed.us.



Emerald Chapter Update

by Mary Beth Averill, Emerald Chapter President

Members who attended the June 12 Planning Potluck discussed the 2014-15 program year and made some changes and decisions. In response to members' requests, we will start our programs at 7 pm instead of 7:30 pm. We will only host pre-program dinners for out of town speakers. We reconsidered our program meeting day and location with the following criteria in mind: free space, large enough space, plenty of accessible parking, technology to support slide shows and our sound system, and permission to sell NPSO and speakers' materials at meetings. In response to member suggestions, we had done more research in winter 2013-2014 to see if we could find a better site that met these criteria, but Lane County Behavior Health remains the best fit. That space is not available on Mondays, so we will continue to meet there on third Thursday evenings. We will gladly discuss better options if members have any.

Emerald Chapter will be hosting the State NPSO Board Meeting on October 18 or 25, location to be announced--you are all invited. We will also be hosting the 2016 Annual Meeting and field trips. If you are interested in participating in the annual meeting planning, please contact Jenny Lippert. People who attended our potluck are hard at work lining up speakers for our 2014-15 program year.



June 8, 2014 Board Meeting Highlights

by Lisa Blackburn, NPSO Secretary

There is still no editor for *Kalmiopsis*. Kareen Sturgeon will talk with Cindy Roché to get her ideas on the future of *Kalmiopsis*, form a committee, and develop options for the Board to consider. Board members should email ideas to Kareen.

At the April board meeting, the Board approved funding a challenge grant for Oregon Flora Project (OFP) up to \$10,000 for all donations to the OFP made between May 1 and October 1, 2014. Since many NPSO members include OFP when they renew their memberships at the end of the year, it was moved, seconded and passed to extend the challenge grant end date to December 31, 2014.

It was moved, seconded and passed to approve two field research grants: \$750 for supplies, travel and food to Rebecca Stubbs, who is studying *Micranthes*; and \$300 for supplies, travel and food to Jason Alexander and Wayne Whaley, who are studying *Lomatium grayi*.

The South Coast Chapter submitted their by-laws for Board approval. It was

continued on page 7

NPSO CALENDAR

State Notes

State Board Meeting

October 18, Saturday, 9:45 am-2 pm

The next meeting of the NPSO State Board will be in Eugene; details TBD.

NPSO Annual Meeting 2015

May 29-31, Friday-Sunday

The Mid-Columbia Chapter will host the 2015 Annual Meeting of the Native Plant Society of Oregon in Hood River. Details will appear in future *Bulletins* and online.

Blue Mountain

For information on Blue Mountain Chapter call Jerry Baker, 541-566-2244.

Cheahmill

For more information, visit the chapter Web site, www.oregon-nativeplants.com. To be added to the e-mail list for upcoming programs and events, please contact cheahmillchapternpsoc@comcast.net.

September 25, Thursday, 7 pm

Program: Floral Explorations; the Owyhee Mountains of Oregon and Slopes of Hell's Canyon of Idaho. Join Ginny Maffitt in a whirlwind tour of the floral highlights of several sections of the inscrutable (read hard-to-reach) Owyhee Mts. of eastern Oregon, followed by one day's drive up the Idaho slopes of Hell's Canyon of the Snake river. This tour was led by the American Penstemon Society last year. Ginny is the acting botanist for the nearby Tualatin Refuge National Fish and Wildlife Refuge as well as an amateur naturalist for many groups that visit there. Doors open at 6:45 pm for socializing, meeting/program starts at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Hwy 99W and SW 2nd St.). Parking lot entrances on Adams and 2nd. For more information, contact Lisa Blackburn, 503-538-3976 or blackburnlisag@gmail.com.

October 23, Thursday, 7 pm

Program: Beach Grass Invasions and Their Influence on Dune Ecosystem Functions and Services. Dr. Sally Hacker, professor of ecology at Oregon State University, will explore how beach grass invasions have changed the dynamics of dune ecosystems and the protective services they provide. Dr. Hacker's research explores the structure, functions, and services of communities

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. **BRING WATER AND LUNCH.** Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. A sample waiver form is available at http://npsoregon.org/documents/NPSO_waiver.pdf. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Dogs are not allowed. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. You must pre-register for all events. National Forests require a Northwest Forest Pass for some field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12. A trip leader checklist and sample waiver form are available at: <http://npsoregon.org/calendar.html>

experiencing major plant invasions. Doors open at 6:45 pm for socializing, meeting/program starts at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Hwy 99W and SW 2nd St.). Parking lot entrances on Adams and 2nd. For more information, contact Lisa Blackburn, 503-538-3976 or blackburnlisag@gmail.com.

Corvallis

For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Jordan Brown at co_president@NPSOregon.org or 253-820-3934.

Emerald

Visit the Emerald Chapter Web site at <http://emerald.npsoregon.org> to learn more about the latest chapter events, plant lists & botanical information about Lane County plants & the people who love them.

Meeting Location: Conference Room at Lane County Mental Health, 2411 Martin Luther King Blvd. Turn off MLK Blvd. onto Scout Access Rd. across from Autzen and take the first left into the parking lot. The meeting room is on the right side as you face the building.

September 18, Thursday, 7 pm (new time!)

Program: Celebrating the 50th Anniversary of the Wilderness Act, the Gold Standard for Protecting Our Most Important Natural Treasures.

Bridget Callahan, wilderness campaign organizer at Oregon Wild, will tell us how this landmark offers a special opportunity to celebrate past victories, consider the value of Wilderness, and explore current campaigns to expand Wilderness protections in Oregon. We will highlight the Crater Lake Wilderness proposal, and explore the Kalmiopsis wildlands, both of which are currently threatened by logging, mining, and off road vehicles. Meeting location: Conference Room at Lane County Mental Health, see above for

directions. For more information call 541-349-9999.

High Desert

For information, visit the *High Desert Chapter website: www.highdesertnpsoregon.org and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email highdesertnps@gmail.com.*

August 22, Friday

Field Trip: Explore Swampy Lake

Fen. Rick Dewey of the US Forest Service will be our guide at this relatively unexplored fen; we could make some new finds! Wear rain boots or shoes you don't mind getting wet. Visit www.highdesertnpsoregon.org for details.

Klamath Basin

This chapter has recently become active. For information, visit the Klamath Basin Chapter website: <http://klamathbasin-nps.com> or contact the chapter president, Melissa Schroeder pres@klamathbasinnps.com.

September 13, Saturday, 9 am - 4 pm

Field Trip: Botany of Upper Klamath Lake. Led by Mel Schroeder, we will look at riparian, wet prairie, emergent, aquatic species, algae and their habitats and discuss wetland restoration. There will be short/easy hikes to a couple of locations. Muck boots or waders are recommended but not necessary. Location: meet at Henzel Park along Upper Klamath Lake. To get to Henzel Park, take Highway 97 north about 15 miles, turn left onto Modoc Point Rd. and drive about 7 miles to the park. From there we will carpool to The Nature Conservancy's Williamson River Delta Preserve and the BLM's Wood River Wetlands. For information, contact Mel Schroeder at pres@klamathbasin-nps.com, or 541-273-0789 x4.

Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at wusara96@yahoo.com.

September 18, Thursday, 7:30 pm

Meeting/Program: Review of Progress in Planning May 2015 Annual Meeting. Program will be announced via e-mail. Location: Room 1.366, Columbia Gorge Community College, The Dalles.

Portland

If you would like to receive the chapter's semi-official e-mail newsletter, The Calochortus, e-mail Don Jacobson at donjphoto@gmail.com.

Facebook: Take a look at our Facebook page. Native Plant Society of Oregon-Portland-Chapter. It will have the most up-to-date information on hike and other events as well as great plant pictures.

Meeting location: The Portland Chapter meets the second Thursday of most months in the Metro Building at 600 NE Grand Ave., Portland. Enter from NE Irving St. on the north side of the building and walk across the upper plaza to the entrance (not the door on 600 NE Grand Ave.). An attendant will let you in and direct you to the meeting room upstairs. Meetings and programs begin at 7 pm.

August, Date and Time TBD

Field Trip: Boulder Lake/Bonnie Meadows. This hike in the Mt. Hood National Forest will likely be in late August. For more information, check the NPSO website, Portland Chapter, or contact Roger Brewer, rogerbrewer@comcast.net or 503-789-5027. The hike to Boulder Lake is short and easy. From there we will continue towards Bonnie Meadow (5 miles RT, 1,100 ft. elevation gain) but may not get all the way. If huckleberries are ripe, we will stop along the trail to pick some. Driving time from Portland is about 1:45.

September 11, Thursday, 7 pm

Program: 50 Native Trees & Shrubs for Northwest Gardens. Professional photographer Mark Turner will give a program on our Pacific Northwest native woody plants. Timber Press has just published *Trees & Shrubs of the Pacific*

Northwest, by Mark and professional botanist, Ellen Kuhlmann. The book will be for sale at the program. Meeting location: Metro building, see above for details. For information, contact: Mary at alphiesmith@comcast.net or 503-288-4340..

October 4, Saturday, 9 am

Field Trip: *Abies* ("True" Firs) Hike.

Led by Rick Shory, who has worked throughout the West as a Forest Service botanist. A little known botanical quirk: All the species of "true" fir (*Abies*) in the Northwest grow around Government Camp, on the southwest slope of Mt. Hood. Learn how to distinguish the various species of *Abies* and tell them apart from other genera of trees. Location: we will leave at 9 am from the NW corner of NE Pacific St. and NE 99th Ave. near Gateway MAX station. Or meet near Government Camp at 10:30 am. Contact Rick Shory, rickshory@gmail.com or 503-253-8100 to sign up and get location details. Round-trip from downtown Portland, about 140 miles.

October 9, Thursday, 7 pm

Program: The Siskiyou: Highlighting Over 20 Areas. NPSO member Jake Hurlbert will show photos and discuss the plants, mushrooms, and insects that he has documented for his Southern Cascade Ecological Study. The habitats in southern Oregon include Bigelow Lake, Dutchman Peak, Grizzly Peak, Wagner Butte, Mt. McLoughlin, and Upper and Lower Table Rocks. Meeting location: Metro building, see above for details. For information, contact Mary, alphiesmith@comcast.net or 503-288-4340.

Siskiyou

To join the Siskiyou Chapter email list: Send an email, from the address at which you want to receive announcements, to announce-join@siskiyou.npsoregon.org. No subject or message is required. You will get a confirmation email. If you would like to volunteer to lead a hike in 2014, make a suggestion, or provide feedback regarding the field trip program please contact Sasha

Joachims at: sasharain71@gmail.com.

September 18, Thursday, 7 pm

Program: Challenges in Native Seed and Plant Production. Join us for a



KAREN STURGEON

Karen Sturgeon in front of ancient western red cedar in Ecola Creek Forest Reserve.

program by Amy Bartow of the USDA NRCS Corvallis Plant Materials Center. Location: TBA (see Siskiyou Chapter e-news for an update) Refreshments at 6:45 pm, meeting and program at 7 pm. For more information, contact: Dave at 541-535-5355.

Umpqua Valley

Visit www.umpquavalleynativeplants.com for more information on chapter activities or to be added to our e-mail list.

Willamette Valley

For program information, contact John Savage at 503-399-8615 or Alexandra Ninneman at 503-391-4145.

August 21, Thursday, 7-8:30 pm (class)

August 23, Saturday (field trip)

Program: Oregon Conifers. Rich Swartzentruber, biology teacher at North Salem High School, will teach a

class on how to identify and locate Oregon's 30 native conifer trees. The time and location of a Saturday, August 23, field trip will be announced during the class. Location: Straub Environmental Learning Center, 1320 A St. NE, next to Olinger Pool, near North Salem High. The class costs \$5 and the field trip \$10. Both are open to the public. Registration is required. Please call 503-391-4145 or contact nichole@fslc.org to register.

William Cusick

Visit our Web site at <http://williamcusick.npsoregon.org> or contact Susan Geer at 541-963-0477 or Emelie Montgomery-Jones at 541-963-3339 for updates and general information. Chapter notices and communications are done primarily through a Google group. Members are reminded to contact Susan or Emelie if they want to be added to the Google group, or if they do not have internet access and want to be contacted by phone for events.

OTHER EVENTS

Institute for Applied Ecology

September 28, Sunday, 2-7 pm

Fundraiser: Invasive Species Cook-off 2014. Eradication by Mastication! A benefit that will support efforts to combat invasive species. Buffet dinner will feature wild boar, wild turkey, Japanese knotweed, sheep sorrel, and more. Enjoy Celtic music by The Nettles and Zenith vineyard wines. Location: Zenith Vineyard, Salem. Cost: \$75, adults; \$25, kids 12 and under. For more information and to purchase tickets, visit eradicationbymastication.org.

Siskiyou Field Institute

September 14, Sunday

Class: Trees and Shrubs of the Rogue Valley. Can't tell the difference between a pine and a true fir? This class, led by Kristi Mergenthaler, caters to botanical

novices who would like to learn to identify common Rogue Valley trees and shrubs. You'll learn helpful plant ID tricks and hear a few natural history true stories. We'll explore a variety of habitats, including oak woodlands, riparian areas, and mountain forests. Location: Ashland. Tuition: \$55. For registration or more information, call 541-597-8530 or visit thesfi.org.

October 14-16, Tuesday-Thursday

Class: Intermediate Bryophytes on Rock Substrates. Many bryophytes (mosses, liverworts, hornworts) are found only on specific substrates such as certain types of rock. The Siskiyou are known for complex geology, which supports a high diversity of bryophytes. Scot Loring will teach techniques used to identify bryophytes, including microscopy, and become familiar with using keys and floras. We'll then apply this knowledge to learning the bryophytes collected from differing rock types at local field trip locations.

Location: Deer Creek Center, Selma. Tuition: \$255. For registration or more information, call 541-597-8530 or visit thesfi.org.

Society for Ecological Restoration

October 6-10, Monday-Friday

Conference: Collaborative Restoration: From Community Efforts to Landscape Scale. The 2014 regional conference will address restoration topics that are important in the Columbia, Great Basin, and Cascadia Bioregions. Participants with a broad range of interest in the practice and science of ecological restoration will share and discuss their knowledge and experience in workshops, field trips, poster session, symposia, and technical sessions. Keynote and plenary speakers will address the theme of collaborative restoration and other regional important topics. Location: Eagle Crest Resort, Redmond. For more information and to register, visit restoration2014.org.



KAREEN STURGEON

Kathleen Sayce, our keynote speaker, Susan Aldrich-Markham, a lead organizer of the meeting, and Katie Voelke, Executive Director of the North Coast Land Conservancy.



KAREEN STURGEON

Bruce Newhouse receives his NPSO Fellow award from Dave Dobak.



KAREEN STURGEON

Lisa Blackburn and Bonnie Laux of the Cheahmill Chapter.



KAREEN STURGEON

Kelli Van Norman (our new fearless leader) and the Southworths at the Friday social.



DON JACOBSON

Cirsium edule



DON JACOBSON

Gaultheria shallon

Scholarship Awards Given to Outstanding Oregon Students

by Thomas Jenkins, Willamette Valley Chapter Scholarship Chairman

The Willamette Valley Chapter is pleased to announce the scholarship award winners for 2014. This year, due to the availability of funding and the high quality of our candidates, four (!) winners have been selected to receive this year's scholarships. Each will receive \$1,000 toward their fall term tuition.

Megan Seymour of Eugene has been chosen to receive the Augusta Rockafellar Memorial Scholarship. Megan is a botany major at Oregon State University, with a focus on genetics. Her internships include the Friends of Buford Park Native Plant Nursery. She aspires to a career researching how plants adapt to climate change. Megan received very strong recommendations from her mentors and we are happy to help this outstanding student in achieving her academic and career goals. Janel Hull of Portland has also been chosen to receive an Augusta Rockafellar Memorial Scholarship. Janel is an incoming senior at Lewis & Clark College, majoring in biology and minoring in

environmental studies. She volunteers as a nature guide at Tryon Creek State Park and works as a research intern for Andrews Experimental Forest. She plans to pursue a career in forest ecology. Janel is an outstanding student who is very deserving of this award.

Lily Clark from Montana has been chosen to receive the Jean Davis Memorial Scholarship. Lily is a biology major attending Lewis & Clark College, with a focus on fire ecology. Last summer she conducted research for The Wilderness Society. She is currently conducting independent research on fire morel mushrooms and their ability to form symbiotic relationships with forest trees. Lily received very strong recommendations from her mentors and we are happy to help her to achieve her goals. Taylor Brentano of Corvallis has also been chosen to receive a Jean Davis Memorial Scholarship. Taylor is a horticulture major attending Oregon State University. Her interest in plants stems from her farming background. She wants a career teaching people to

value sustainable and ecologically responsible horticultural methods. Taylor received strong support from her mentors and we are happy to help her to achieve her goals.

Congratulations to all of our winners! Also, "Thank you very much!" to those who have donated money in support of these scholarships.



Board Meeting, continued from page 2

moved, seconded and passed to approve the South Coast by-laws if they make the changes regarding President succession and term of office to match the new Corvallis Chapter by-laws.

At the April board meeting, a committee was formed to research on-line payments for NPSO membership. The committee is requested to update the Board at the fall meeting. Linda Hardison thanked NPSO members for their silent auction support before the Annual Meeting banquet, almost \$500 was raised.



Tellima grandiflora



Iris tenax

For more of Don Jacobson's Annual Meeting photos, visit:
Neahkahnie Mountain Field Trip:
<http://donjacobsonphoto.com/NeahkahnieMtn/NeahkahnieMtn.html>

Cape Falcon Field Trip:
<http://donjacobsonphoto.com/CapeFalcon/CapeFalcon.html>

Saddle Mountain:
<http://donjacobsonphoto.com/SaddleMtn/SaddleMtn.html>

Ecola Forest Preserve Field Trip:
<http://donjacobsonphoto.com/EcolaForest/EcolaForest.html>

Kathleen Sayce (north coast ecologist *extraordinaire*!) capped off the evening with a lively and informative talk on north coast geology and botany. We learned that this area, known as the Swala-lahos Floristic Area, is special for several reasons, all of which affect what grows there: 1) it lies south of the extent of Pleistocene ice; thus its soils are much older than those to the north; 2) the flora was not as affected by indigenous burning as were areas such as the Willamette Valley and interior Coast Range to the east or coastal headlands, such as Cascade Head, to the south; and 3) finally, the spectacular mountains along the north coast are formed from Miocene flood basalts that originated far to the east in Idaho and eastern Washington. Today, the area is heavily logged and urbanized, but pockets of natural area with associated floras remain, which became the focus of the remainder of her presentation and reinforced what we had all seen earlier in the day: local endemics, such as *Filipendula occidentalis*, growing on wet, rock walls and *Castilleja chambersii* on rocky balds; stilt-rooted Sitka spruce finding home in a swamp; sea cliff meadows harboring extensive patches of *Iris tenax* and *Sidalcea hirtipes*; and patches of old growth forest protecting ancient western red

cedars and Sitka spruce. Kathleen peppered her presentation with examples from locations where the North Coast Land Conservancy is working to "connect the landscape" from mountain top to shoreline by protecting and restoring small patches of habitat, such as those found at Silverspot Meadow, along Neacoxie Creek and at Circle Creek.

All agreed that the weather gods treated us kindly and that, once again, the Annual Meeting served its purpose of supporting the Society's mission to provide opportunities for members to enjoy, conserve and study Oregon's native plants and habitats.



Viola glabella

DON JACOBSON

THANK YOU TO ALL OF THE VOLUNTEERS WHO MADE THE 2014 NPSO ANNUAL MEETING IN CANNON BEACH A SUCCESS!

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Susan Aldrich-Markham, Lisa Blackburn, Jim Culbert, Leah & Larry Flake, Bonnie Laux, Craig Markham, Marna Porath, Kareen Sturgeon, Michal Wert

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Saddle Mountain Botany (& Photography)

Lewis & Clark National Historic Park

Ecola Creek Forest Reserve

Tillamook Head/Ecola State Park

Neahkahnie Mountain

Ecola Creek Forest Reserve

Gearhart Fen/Neahkahnie sea cliff meadow

Cape Falcon

Gearhart Fen

Lower Onion Peak

Angora Peak

Neahkahnie sea cliff meadow

Cape Falcon

Cape Falcon

North Coast Land Conservancy preserves

Vendors and posters:

Susan Berger Photography; Cannon Beach Book Company; Erin Gray, Institute for Applied Ecology; Dorota Haber-Lehigh, Botanical Art; Linda Hardison, Oregon Flora Project; Katie Voelke, North Coast Land Conservancy; Linda Vorobik Botanical Art



KAREEN STURGEON

Cindy Roché with her print of Siskiyou iris by the late Bonnie Hall.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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Native Plant Society of Oregon

P.O. Box 80714

Portland, OR 97280

DUES include monthly *Bulletin* and *Kalmiopsis* when published.

Membership is for the calendar year. New memberships enrolled after July 1 include the following year.

☐ New ☐ Renewal

☐ Student – \$12 ☐ Regular – \$25 ☐ Family – \$35

☐ Sustaining – \$60 ☐ Patron – \$125 ☐ Life Membership – \$500

☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$25 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____

Leighton Ho Memorial Field Botany Fund \$ _____

Augusta Rockafellar Memorial Scholarship \$ _____

Rare and Endangered Plant Conservation Fund \$ _____

Friends of the Oregon Flora Project \$ _____

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and changes of address (include old address) should be sent to the Membership Chair. Changes of address may also be e-mailed to Membership@NPSOregon.org.

OFFICERS & COMMITTEE CHAIRS

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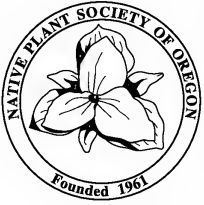
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Friends of the Oregon Flora Project

Have you taken advantage of the matching funds available in support of the Flora Project? Your contribution, up to \$10,000, will be generously matched by the NPSO state organization as demonstration of its support for this important project. Floras provide essential information that informs land management decisions, restoration, plant conservation, and invasive species management. The OFP shares this information through our website and the upcoming two-volume *Flora* as well as through our wildflower identification app for mobile phones and tablets.

We are in the final stages of manuscript preparation for Volume 1 of the *Flora of Oregon*, which will be published in 2015. Your financial support and volunteerism have made it possible for us to reach this stage, and we continue to need your support to see us to its completion. Please leverage the support of the NPSO's matching grant and make a contribution now to keep the OFP's progress strong!

Contributions can be mailed directly to: Agricultural Research Foundation, Oregon State University, 100 Strand Ag Hall, Corvallis, OR 97331-2219. Please make checks payable to the Ag. Research Foundation, and include "Oregon Flora Project-4482" on the memo line.



Bulletin

of the

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Dedicated to the enjoyment, conservation and study of Oregon's native plants and habitats

VOLUME 47, No. 8

OCTOBER 2014

ACECs and Horse Rock Ridge Research Natural Area

by Amy Comstock and Emma MacDonald, 2014 IAE/NPSO Interns

Many natural areas require protection, and sometimes special management, in order to keep the balance between recreation and diversity. This is where Areas of Critical Environmental Concern (ACECs) come into play. ACECs are areas where the Bureau of Land Management (BLM) implements special protection and monitoring in order to preserve significant historical, cultural, or natural resource features.

The ACEC program began under the Federal Lands Policy and Management Act of 1976 (FLPMA). The FLPMA was enacted to ensure the protection of public lands while simultaneously allowing for recreation and use by the public. This act declares that "...the public lands be managed in a manner that will protect the quality of

scientific, scenic, historical, ecological, environmental, air and atmospheric, water resource, and archeological values." It also states that "Terms and conditions must minimize damage to scenic and aesthetic values and fish and wildlife habitat and otherwise protect the environment." The FLPMA is used by the BLM, National Forest Service, and National Park Service, but the BLM is unique in that it is the only agency to also use the ACEC designation.

In order for a parcel of land to become an ACEC, it must first be nominated. This nomination can come from individuals or organizations within or outside of the BLM. The nomination is then reviewed, and the land is evaluated to determine whether or not it

meets both relevance and importance criteria. Criteria include such things as presence of significant biological, cultural, or aesthetic value, or even human safety.

The Institute for Applied Ecology (IAE) works in agreement with the BLM to monitor plant communities and develop management plans within ACECs. Currently, IAE is conducting projects within five designated ACEC sites, and two proposed sites. One of these sites is Horse Rock Ridge, which is located northeast of Eugene in the western foothills of the Cascades. This is a particularly interesting site because of its high plant diversity, and also because it is accessible to the public. For a brief description of other ACECs that IAE is involved with, see Table 1.

continued on page 7



Figure 1: Map of current and proposed ACECs with IAE involvement in Oregon.

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOregon.org>

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Eugene, OR 97440
or correspond directly with Officers
and Committee Chairs listed on the
inside of the back page.

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tion are those of the authors of the
articles. They do not represent the
opinions of the Native Plant Society
of Oregon, unless so stated.

Looking For Northern Oregon Coast Native Plant Enthusiasts!

In the wake of the Native Plant Society of Oregon's successful 2014 Annual Meeting in Cannon Beach in June, local botanists are organizing a northern coastal chapter of NPSO, tentatively called Filipendula Chapter after the lovely endemic, *Filipendula occidentalis*, queen-of-the-forest. We plan at least four hikes per year in Clatsop, north Tillamook, and south Pacific counties. For more information and to add your name to the list of interested participants, contact Kathleen Sayce, ksayce@willapabay.org.



New Chapter on the Southern Oregon Coast

by Alexis Brickner, South Coast Chapter President

The South Coast Chapter of NPSO has been forming since March, with official acceptance by the State organization in June 2014. Our first "interest" meeting garnered 17 attendees and in May, 21 people joined us on our inaugural field trip as an unofficial chapter. Now that we are an official NPSO chapter, we wanted to introduce ourselves to the rest of the organization. Our group is made up of botanists, biologists, educators, gardeners, and general plant lovers wanting to increase their native plant knowledge. While most of our members reside in the Coos Bay-Bandon-Coquille area, we hope to fully embody the name "South Coast" by increasing membership in Curry County, perhaps forming a satellite group.

The southern coast of Oregon is lush with beautiful, unique flora and diverse habitats. South Coast chapter members hope to appreciate and learn from all that our region has to offer. While still figuring out what shape we want to take, there has been general consensus on chapter format. We will start out slowly with meetings every other month that will host a speaker and allow for discussion of chapter business. With the success of our first field trip last spring, we will be working hard to plan several more for next spring and summer in a variety of habitats. There has also been interest in helping with the Citizen's Rare Plant Watch to help update records of historic rare plant populations. Finally, we hope to partner with other local groups to educate our community on native plants through demonstration gardens, fundraisers, and presentations. We are lucky to have the director of Bandon High School's Go Native! project as a member. Go Native! is a native plant nursery managed by high school students and we hope to work with them on projects in the future to help inspire the younger generation to become native plant stewards.

Though still a small chapter, we are full of dedication, determination and high hopes to cultivate a chapter that will unite native plant enthusiasts along the southern Oregon coast.

NPSO CALENDAR

State Notes

State Board Meeting

October 18, Saturday, 9:45 am - 2 pm

The next meeting of the NPSO State Board will be in Eugene.

NPSO Annual Meeting 2015

May 29-31, Friday-Sunday

The Mid-Columbia Chapter will host the 2015 Annual Meeting of the Native Plant Society of Oregon in Hood River. Details will appear in future *Bulletins* and online.

Blue Mountain

For information on Blue Mountain Chapter call Jerry Baker, 541-566-2244.

Cheahmill

For more information, visit the chapter Web site, www.oregon-nativeplants.com. To be added to the e-mail list for upcoming programs and events, please contact cheahmillchapternpsoc@comcast.net.

October 23, Thursday, 7 pm

Program: Beach Grass Invasions and Their Influence on Dune Ecosystem Functions and Services. Dr. Sally Hacker, professor of ecology at Oregon State University, will explore how beach grass invasions have changed the dynamics of dune ecosystems and the protective services they provide. Dr. Hacker's research explores the structure, functions, and services of communities experiencing major plant invasions. Doors open at 6:45 pm for socializing, meeting/program starts at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Hwy 99W and SW 2nd St.). Parking lot entrances on Adams and 2nd. For more information, contact Lisa Blackburn, 503-538-3976 or blackburnlisag@gmail.com.

November 20, Thursday, 7 pm

Program: Wilderness Act at 50. Come celebrate the 50th anniversary of the

Wilderness Act with Bridget Callahan, wilderness campaign organizer for Oregon Wild. Celebrate past victories, explore the value of wilderness, and identify present and future obstacles to expand Oregon's wilderness. Callahan will highlight the botanical treasures of the Kalmiopsis Wilderness, an area that is host to Oregon's highest concentration of rare plants, but is currently threatened by logging, mining,

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. **BRING WATER AND LUNCH.** Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. A sample waiver form is available at http://npsoregon.org/documents/NPSO_waiver.pdf. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Dogs are not allowed. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. You must pre-register for all events. National Forests require a Northwest Forest Pass for some field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12. A trip leader checklist and sample waiver form are available at: <http://npsoregon.org/calendar.html>

and illegal motorized vehicles. Doors open at 6:45 pm for socializing. Meeting/Program starts at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Hwy 99W and SW 2nd St.). Parking lot entrances on Adams and 2nd. For more information contact: Lisa Blackburn, 503-538-3976 or blackburnlisag@gmail.com.

Corvallis

For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Jordan Brown at co_president@NPSOregon.org or 253-820-3934.

October 12, Sunday, 1-4 pm

Work Party: Avery House Native Plant Garden. We'll focus on fall pruning and making divisions of some of the native plants to pot up for the spring garden sale. Come prepared to work in the yard with gloves and some gardening tools. Snacks will be provided! Contact Esther at 541-754-0893 if you're interested, plan to come, or need more information.

October 13, Monday, 7:30 pm

Talk: Plant Communities of Florida. NPSO member Carolyn Kindell will take us on a tour of Florida's major plant communities, rare plants, and a history of land conservation and management in the state. She will discuss and have on hand a copy of the Atlas of Florida Biodiversity, published in 2011. Location: Avery House in Avery Park For information, contact Jordan at 253-820-3934 or brownj@science.oregonstate.edu.

Emerald

Visit the Emerald Chapter Web site at <http://emerald.npsoregon.org> to learn more about the latest chapter events, plant lists & botanical information about Lane County plants & the people who love them.

Meeting Location: Conference Room at Lane County Mental Health, 2411 Martin Luther King Blvd. Turn off

MLK Blvd. onto Scout Access Rd. across from Autzen and take the first left into the parking lot. The meeting room is on the right side as you face the building.

October 16, Thursday, 7 pm (new time!)

Program: 50 Native Trees and Shrubs for Northwest Gardens. Photographer and author Mark Turner will draw on his work in the new field guide, *Trees & Shrubs of the Pacific Northwest*. Learn to go beyond Oregon-grape, kinnikinnick, and red-osier dogwood in your garden. Learn the strengths (and weaknesses) of both evergreen and deciduous species. Including locally adapted trees and shrubs can save you money on your water bill while making your yard more attractive to wildlife. Meeting location: Conference Room at Lane County Mental Health, see above for directions. For more information call 541-349-9999.

November 20, Thursday, 7 pm (new time!)

Program: Willamette Forest Roads Investment Strategy. Virtually everything that people value in our National Forests touches, at some point, the road system. The Willamette National Forest is working on developing a strategy that will be used to guide road management decisions in the future. Matt Peterson, road investment strategy team leader, will describe how the Forest Service is developing the investment strategy and how the public can continue to be involved. Meeting location: Conference Room at Lane County Mental Health, see above for directions. For more information call Jenny at 541-225-6440.

High Desert

For information, visit the High Desert Chapter website: www.highdesertnpsoregon.org and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email highdesertnps@gmail.com.

Klamath Basin

For information, visit the Klamath Basin Chapter website: <http://klamathbasin-nps.com> or contact the chapter president,

Melissa Schroeder pres@klamathbasin-nps.com.

Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at wusara96@yahoo.com.

October 16, Thursday, 7 pm

Meeting/Program: Trout Lake Restoration Project. Keyna Bugner and Carolyn Wright of the Natural Areas Program, Washington State Department of Natural Resources (DNR), will describe the Trout Lake restoration project. The goal of the project is to improve habitat for the rare Oregon spotted frog and sandhill cranes. The presentation will give an overview of the history of the project and future plans to continue the work. A Saturday field trip to the Trout Lake Natural Area Preserve will provide in-person exposure to this project (see below). Location: Room 1.366, Columbia Gorge Community College, The Dalles.

October 18, Saturday, 10 am

Field Trip: Trout Lake Restoration Project. Keyna Bugner will give a tour of the Trout Lake Natural Area Preserve and its habitat restoration. We'll have lunch on site or in Trout Lake if the weather is bad. For those who want to see more of the site, we'll have the option of walking the interpretive trail after lunch. Location: meet at the Forest Service Office in Trout Lake at 10 am or at the Hwy 14 park-and-ride (west of the Hood River Bridge) at 9:20 am. Group size limited to 15. Pre-registration required; contact Keyna Bugner, keyna.bugner@dnr.wa.gov or 509-925-0906, for details and to register.

Portland

If you would like to receive the chapter's semi-official e-mail newsletter, The Calochortus, e-mail Don Jacobson at donjphoto@gmail.com.

Facebook: Take a look at our Facebook page. Native Plant Society of Oregon-Portland-Chapter. It will have the most up-to-date information on hike and other events as well as great plant

pictures.

Meeting location: The Portland Chapter meets the second Thursday of most months in the Metro Building at 600 NE Grand Ave., Portland. Enter from NE Irving St. on the north side of the building and walk across the upper plaza to the entrance (not the door on 600 NE Grand Ave.). An attendant will let you in and direct you to the meeting room upstairs. Meetings and programs begin at 7 pm.

October 4, Saturday, 9 am

Field Trip: *Abies* ("True" Firs) Hike. Led by Rick Shory, who has worked throughout the West as a Forest Service botanist. A little known botanical quirk: All the species of "true" fir (*Abies*) in the Northwest grow around Government Camp, on the southwest slope of Mt. Hood. Learn how to distinguish the various species of *Abies* and tell them apart from other genera of trees. Location: we will leave at 9 am from the NW corner of NE Pacific St. and NE 99th Ave. near Gateway MAX station. Or meet near Government Camp at 10:30 am. Contact Rick Shory, rickshory@gmail.com or 503-253-8100 to sign up and get location details. Round-trip from downtown Portland, about 140 miles.

October 9, Thursday, 7 pm

Program: The Siskiyou: Highlighting Over 20 Areas. NPSO member Jake Hurlbert will show photos and discuss the plants, mushrooms, and insects that he has documented for his Southern Cascade Ecological Study. The habitats in southern Oregon include Bigelow Lake, Dutchman Peak, Grizzly Peak, Wagner Butte, Mt. McLoughlin, and Upper and Lower Table Rocks. Meeting location: Metro building, see above for details. For information, contact Mary, alphiesmith@comcast.net or 503-288-4340.

October 15, Wednesday, 9 am (Portland) 10 am (Stabler)

Field Trip: Lichens of the Gifford Pinchot National Forest. Andrea Ruchty, botanist for the Mt. Adams Ranger District, will lead us on a trail near the Wind River Forest Service

Work Center in Stabler, Wash. We will learn to identify some of the major lichens in the lush forest, as well as their role as indicators of air quality. Bring a hand lens. You will find a lichen key in Pojar & MacKinnon's *Plants of the Pacific Northwest Coast*, but McCune and Geiser's *Macrolichens of the Pacific Northwest* has the best detailed coverage. Contact Nancy Chapman at chapmannj@comcast.net for exact meeting places and to sign up.

November 13, Thursday, 7 pm

Program: Forest Park: Portland's Greatest Natural Resource. Biologist Marcy Houle will discuss the natural ecology of Portland's Forest Park, one of the world's largest urban parks and our nation's only urban wilderness. Marcy has researched Forest Park for over 30 years and will highlight its history, detail the five things that make this park unique, and explain how we, as stewards, can protect its native plants and animals. Marcy will be selling her book, *One City's Wilderness: Portland's Forest Park* (3rd Ed). Meeting location: Metro building, see above for details. For information, contact Mary, alphiesmith@comcast.net or 503-288-4340.

Siskiyou

To join the Siskiyou Chapter email list: Send an email, from the address at which you want to receive announcements, to announce-join@siskiyou.npsoregon.org. No subject or message is required. You will get a confirmation email. If you would like to volunteer to lead a hike in 2014, make a suggestion, or provide feedback regarding the field trip program please contact Sasha Joachims at: sasharain71@gmail.com.

October 14, Tuesday, 7 pm

Program: In Praise of Woody Diversity. Join us for a presentation by Mark Turner, a professional photographer who collaborated with botanist Ellen Kuhlman on the recently published *Trees and Shrubs of the Pacific Northwest*. This is a special joint meeting with the Siskiyou Chapter of the North American Rock Garden Society. Meeting location: Medford Congregational United Church of Christ, Lidgate Hall, 1801 E. Jackson St., Medford.

For more information contact: Dave at 541-535-5355.

South Coast

This is a newly formed chapter. For more information, contact the chapter president, Alexis Brickner, alexis.brickner@gmail.com.

October 23, Thursday

Program: Autumn Meeting. The chapter will meet in Bandon. Specific time, location, and speaker to be determined. For more information contact Alexis Brickner at 860-878-2049 or alexis.brickner@gmail.com.

Umpqua Valley

Visit www.umpquavalleynativeplants.com for more information on chapter activities or to be added to our e-mail list.

Willamette Valley

For program information, contact John Savage at 503-399-8615 or Alexandra Ninneman at 503-391-4145.

October 28, Tuesday, 6:30-8:30 pm

Program: Chapter Meeting. We will hold a planning session to consider ideas for next year's programs, field trips, and projects. Both members and non-members are encouraged to attend and offer ideas for programs and/or projects they would like the chapter to pursue. Location: Straub Environmental Learning Center, 1320 A Street NE, next to Olinger Pool, near North Salem High. For more information, call John Savage at 503-399-8615 after 7 pm.

William Cusick

Visit our Web site at <http://williamcusick.npsoregon.org> or contact Susan Geer at 541-963-0477 or Emelie Montgomery-Jones at 541-963-3339 for updates and general information. Chapter notices and communications are done primarily through a Google group. Members are reminded to contact Susan or Emelie if they want to be added to the Google group, or if they do not have internet access and want to be contacted by phone for events.

OTHER EVENTS

Bush Barn Art Center

September 5-October 17, Daily except Mondays

Exhibit: In the Footsteps of David Douglas. This exhibition will highlight the life and accomplishments of Scottish botanist and explorer David Douglas and his contemporary legacy of plant collecting, documentation and illustration in the Pacific Northwest. The exhibit will include artifacts, herbaria samples, natural history literature, and educational displays illuminating Douglas's explorations in the Willamette Valley. A central focus of the exhibit will be a selection of natural science illustrations by contemporary artists. Location: 600 Mission Street SE, Salem. For more information, visit <http://salemart.org/programs/>

bush-barn-art-center/exhibitions or call 503-581-2228.

Straub Environmental Center

October 11-12, Saturday-Sunday

Nature Art Workshop: Botanical Drawing. Enjoy the simple art of drawing with a pencil while taking time to look and see the details and beauty in botanical subjects. Learn techniques for working with pen and ink, graphite pencils and color pencils. All experience levels welcome. Cost: \$125. Supply list will be provided upon registration. Location: Straub Environmental Center, 1320 A Street NE, Salem. For more information and to register, visit straubenvironmentalcenter.org/nature-art-workshops or call 503-391-4145.

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Deschutes Land Trust

October 25, Saturday, 3:30-6:30 pm

Fall Colors Hike: Rimrock Ranch.

Join the Land Trust and Mary Crow to explore this spectacular private ranch perched above Whychus Creek near Sisters. See unique rock formations, walk along the banks of the willow and cottonwood lined creek, and learn about the ranch's ecology and conservation while you revel in the fall colors on this challenging 3 mile hike. Bring snacks, water, sturdy hiking shoes. Dress for the weather. Registration is required; visit deschuteslandtrust.org/events/hikes or call 541-330-0017 for more information and to register.

October 25, Saturday

Estacada Festival of the Fungus. Enjoy

the fabulous fungi in the form of an art show, food, and education. Get up close to wild mushrooms, eat edible mushrooms, and meet vendors displaying their fungus fun artwork. Get the dirt on poisonous mushrooms and check out other wild fungi, from the wonderfully medicinal to the really strange. For more information, visit estacadafungus-fest.com.

Mount Pisgah Arboretum

October 26, Sunday, 10 am-5 pm

Mushroom Festival. This annual event includes a huge mushroom exhibit, live music, scarecrow contest, apple pressing, kids' activities, food & wine, arts, crafts, & books. No dogs, please. Suggested donation: \$8 per person, children under 12 free. Location: Mount Pisgah Arboretum, 34901 Frank Parrish

Rd, Eugene. Free shuttle from Civic Stadium every hour on the hour. For more information, visit mountpisgaharboretum.com/festivals-events/mushroom-festival or call 541-747-3817.

Siskiyou Field Institute

November 7-9, Friday-Sunday

Class: Forest Mushrooms of Southwest Oregon/Northwest California.

Learn wild mushroom biology, ecology, taxonomy, and field ID with David Lebo. We'll spend Friday afternoon in class learning about fungi, then drive the scenic Smith River Gorge Saturday while looking for mushrooms on the Six Rivers National Forest. Sunday we'll continue mushroom forays along the southern Oregon Coast. Tuition: \$155. For registration or more information, call 541-597-8530 or visit thesfi.org.



Supporting the Cause of Your Choice – It's Never Been Easier

How concerned are you about the quality of air you breathe? What about the natural areas you visit – would you like to visit them 10, 20 or 50 years from now? With ongoing threats to our natural environment, we count on conservation groups to protect our forests, farmland, streams and air quality.

NPSO is a member of EarthShare Oregon, a nonprofit that allows employees across Oregon to support nearly 80 of the best environmental organizations here at home, and coast to coast.

If you work for the State of Oregon, the federal government, Kaiser Permanente, NW Natural, PGE, or one of more than 100 employers (<http://earthshare-oregon.org/campaigns/workplace-partners>), you can make one-time or regular donations

from your paycheck – just by signing up once a year. It's simple and easy.

Please contribute today through EarthShare to restore our forests, reduce landfill waste, develop clean energy, protect threatened land, and safeguard our streams. When you do, you're not only protecting Oregon's environmental legacy, you're inspiring others to share in that responsibility.

If your workplace does not offer EarthShare Oregon, establishing a partnership is easy. EarthShare staff will work with your employer to set up a program that meets your company's needs.

For more information, please contact Jan Wilson at 503-223-9015 or jan@earthshare-oregon.org. And visit us at earthshare-oregon.org.

Is the e-Bulletin for You?

We are pleased to offer the option to receive the *Bulletin* in electronic form. An email would be sent to you with the *Bulletin* attached as a PDF file and a link from which you can access the file on the Web. This e-Bulletin would replace the paper copy you receive every month in your mailbox. If you would like to receive the e-Bulletin rather than the paper copy, please email membership@NPSOoregon.org from the email address at which you want to receive it. Also, include your name as it appears on the mailing label of your paper copy.

Horse Rock Ridge was nominated as an ACEC in 1984 as an example of a mid-elevation, grassy “bald” (treeless) area interspersed with stands of young and old-growth trees. The 378 acre site occurs along the western margin of the Cascade foothills in Linn County, Oregon. This area is characterized by open, south-facing slopes, with shallow soils studded with rocky outcrops. Horse Rock Ridge is unique in that it is home to both western and eastern Cascade-specific plants, as well as species common to both low elevation grasslands and higher elevation mountainous regions. IAE began a partnership with the BLM on Horse Rock Ridge in 2006. Their goal was to create a multifaceted study on native plant communities and invasive species encroachment, as well as test the effectiveness of various habitat restoration approaches. Some of the restoration approaches include noxious weed removal, seed collection, native species seeding and native species out-planting.

IAE has chosen to focus on several common nuisance species, which occur in small patches or as individuals within the Horse Rock Ridge community. These species include *Sonchus asper*, *Tragapogon dubius*, *Rumex crispus*, and *Rubus* sp. More ubiquitous species such as *Cynosurus echinatus*, *Leucanthemum*



Figure 3: Native grass species ready for outplanting. From Left to Right: *Koeleria macrantha*, *Bromus carinatus*, *Festuca roemerii*, *Stipa lemmonii*, *Poa scabrella*, and *Danthonia californica*.

vulgare, and *Hypochaeris radicata* were not the main focus of our efforts as their populations are wide-spread and dense. These species were removed only in areas where complete eradication was possible. Experimental plots were established to test the efficacy of invasive species removal and native species establishment using methods such as solarization (eradicating weeds by using tarps to trap solar heat), carbon addition to the soil, and weeding, followed by native seeding. All treatments, including carbon addition, solarization and seed addition, decreased invasive cover while increasing native grass and forb cover. Our data suggest that a low

abundance of native seed may be one of the strongest limiting factors of native plant dispersal and recruitment, making native plant reintroduction a potentially strong tool for invasive displacement and eradication.

Grass and forb species such as *Danthonia californica*, *Elymus glaucus*, *Koeleria cristata* (synonym of *K. macrantha*), *Stipa lemmonii* (synonym of *Achnatherum lemmonii*), *Balsamorhiza deltoidea*, *Erigeron compositus*, *Eriophyllum lanatum*, *Mimulus guttatus* (synonym of *Erythranthe* spp.), and *Potentilla glandulosa* (synonym of *Drymocallis* spp.) were chosen to be part of the reintroduction efforts due to their hardiness and ability to grow and reproduce quickly. Seeds for these species were collected on-site to use in both future reseeding efforts and offsite propagation. Since seed supply is limited and cannot cover the entire scope of Horse Rock Ridge, we focused on creating biodiversity “islands,” which promote connectivity and genetic diversity within native populations. Native wildflower bulbs and seeds were also added to increase diversity. These robust islands will add to the native seed bank and deter non-native invasion; their natural expansion will also contribute to our reintroduction efforts. Although IAE’s current partnership on Horse Rock Ridge is set to end in 2014, the data collected from our studies can be used as a management tool for future



Figure 2: Horse Rock Ridge ACEC.

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restoration.

Areas like Horse Rock Ridge, which are accessible to the public, need to be treated with special care. These areas are frequently visited due to their scenic views, biological diversity, and hiking trails. As public lands, they are meant to be enjoyed and appreciated, but because of their sensitivity, they must also be used with respect. Some

common disturbance problems include use of all-terrain vehicles (ATVs), off-leash dog activity, camping in non-designated areas, litter, trampling, and inadvertent introduction of invasive species. Treating these areas with special consideration is an important part of ensuring that they are around for future generations to enjoy.

For more information on these and other projects, please visit IAE's

"Adventures in Conservation Research" blog at research.appliedeco.org. For information on IAE/NPSO internship opportunities, please contact Matt Bahm at mattab@appliedeco.org, or visit appliedeco.org. We thank NPSO for contributing to botanical education and work experience for tomorrow's environmental leaders.

Table 1: ACECs where IAE has assisted with monitoring

Site	Classification Date	Reason nominated	Threats	Special considerations	Acreage
French Flats	1995	Several rare plant species including <i>Lomatium cookii</i>	Illegal ATV use, proposed mining operations.	Previous mining activity has altered the natural hydrological pattern here, affecting diversity.	656 acres
Table Rocks	1986	Several rare species, such as <i>Limnanthes pumila</i> and cultural significance to local Native American tribes.	ATV use, anthropogenic disturbance, and pollution.	Formal management partnership established between the BLM and the Confederated Tribes of Grand Ronde and the Cow Creek Band of Umpqua Tribe of Indians.	1,200 acres. An adjacent 3,600 acres is similarly managed.
Beatty Creek	1995	<i>Eucephalus vialis</i> and <i>Calochortus coxii</i>	Adjacent logging and development.	Many serpentine-specific plants and bryophytes. Low levels of exotic species.	850 acres
Coos Bay North Spit	1995	Several endangered plants including <i>Cordylanthus maritimus</i> ssp. <i>palustris</i> (synonym of <i>Chloropyron maritimum</i> ssp. <i>palustre</i>) and <i>Limonium californicum</i>	ATV use in sensitive areas, invasive species encroachment.	It has been hypothesized that the lack of disturbance has allowed <i>L. californicum</i> to out-compete the <i>C. maritimus</i> ssp. <i>palustris</i> in these protected habitats.	725 acres
Pickett Creek	Nominated 2007	<i>Fritillaria gentneri</i>	Currently lacks ACEC protected status.	Many serpentine specialized plants.	89 acres
Denny Flat	Nominated 2010	<i>Lupinus lepidus</i> var. <i>cusickii</i> , greater sage grouse	Currently lacks ACEC protected status.	Known to host leks (special mating areas) for greater sage grouse.	3,842 acres



NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

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City _____ State _____ Zip+4 _____

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Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

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☐ Check to receive electronic *Bulletin*, sent by email in lieu of paper.

Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Native Plant Society of Oregon

P.O. Box 80714

Portland, OR 97280

DUES include monthly *Bulletin* and *Kalmiopsis* when published.

Membership is for the calendar year. New memberships enrolled after July 1 include the following year.

☐ New

☐ Renewal

☐ Student – \$12

☐ Regular – \$25

☐ Family – \$35

☐ Sustaining – \$60

☐ Patron – \$125

☐ Life Membership – \$500

☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$25 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____

Leighton Ho Memorial Field Botany Fund \$ _____

Augusta Rockafellar Memorial Scholarship \$ _____

Rare and Endangered Plant Conservation Fund \$ _____

Friends of the Oregon Flora Project \$ _____

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and changes of address (include old address) should be sent to the Membership Chair. Changes of address may also be e-mailed to Membership@NPSOregon.org.

OFFICERS & COMMITTEE CHAIRS

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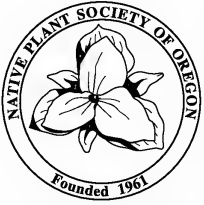
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Friends of the Oregon Flora Project

We are close—very close—to submitting the manuscript of the first volume of the *Flora of Oregon* to the publisher. It is exciting to bring so many years of work to completion and produce this much-anticipated reference in a book format. It will provide the public with the first complete flora of our state in over a half-century!

There are up-front costs associated with publishing a hardbound flora for which the OFP will be responsible. This is an expense beyond our normal operating budget. The \$10,000 challenge grant offered by the state NPSO and the contributions it inspires can be a significant input toward printing costs. Please help us meet this challenge by making a donation now, thereby doubling the impact of your gift.

Contributions can be made online through our website (www.oregonflora.org/supportOFP.php), or mailed directly to: Agricultural Research Foundation, 1600 SW Western Blvd Suite 320, Corvallis, OR 97333. Please make checks payable to the Ag. Research Foundation, and include “Oregon Flora Project” on the memo line.



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation and study of Oregon's native plants and habitats

VOLUME 47, NO. 9

NOVEMBER 2014

NPSO Annual Meeting 2015: the Heart of the Columbia River Gorge

by Elizabeth Stanek, Mosier

The 2015 Annual Meeting, sponsored by the Mid-Columbia Chapter, will be held in Hood River, in the heart of the Columbia River Gorge, May 29–May 31. The Gorge, approximately 85 miles long, is the only place in the Cascade Range where the mountains are divided by a river at near sea level. The Columbia is a mighty river, draining an area the size of France, with headwaters in the Rocky Mountains of British Columbia. It is by volume the fourth largest river in the United States. It provided one of the earliest passage-ways into the continent for explorers such as David Douglas and John Kirk

Townsend and, of course, became the passage west for the Meriwether Lewis and William Clark expedition. For many years before that event, Native Americans from hundreds of miles around gathered at Celilo Falls, just east of what is now the town of The Dalles, to celebrate and trade during the fall salmon runs on the river. Native Americans continue to dip net for salmon along the Columbia and several of its tributaries to this day.

A major attraction for botanists is the fact that the Columbia River Gorge cuts through an abundance of climates, from the arid deserts of eastern Oregon

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DELL RHODES

The Columbia, looking east from Catherine Creek at sunset, March 2011.

IT'S RENEWAL TIME!

The NPSO membership year is January to December. Now is the time for members to renew for 2015. To find out whether you need to renew, please look at your address label on this issue of the *Bulletin*. If 2014 appears along the top edge of the label, you need to renew before February 14, 2015 to ensure that you do not miss out on any of the *Bulletins* or *Kalmiopsis*. If the year is absent (i.e. top of label is blank) or if you see 2015, 2016, or a later year, ignore this notice - you do NOT need to renew at this time.

Please use the remittance envelope in this issue of the *Bulletin* to send in your dues, or use the membership form on the inside back page if the envelope is missing.

It's also a great time to consider a tax-deductible contribution to our special funds. The Leighton Ho Memorial Award is used for research projects in western Oregon. The Rare and Endangered Plant Fund supports work with our most threatened plants. The Augusta Rockafellar and Jean Davis Memorial Scholarships are awarded annually to a botany student at an Oregon college or university. You can also include a contribution to the Oregon Flora Project along with your dues.

Earth Share contributors: ignore this notice unless you wish to become a regular member of NPSO. You will continue to receive the *Bulletin* for one year from the time of your contribution.

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Native Plant Society of Oregon

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To join, send a message to majordomo@tardigrade.net, with the following in the body of the message: `subscribe npsos`

General Business Address

P.O. Box 902
Eugene, OR 97440

or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

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Bulletin of the Native Plant Society of Oregon

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The submission date is the 10th of each month for the following month's issue except for the Aug/Sept issue which is July 24 and the Dec/Jan issue which is November 24. Send submissions by e-mail to bulletin@NPSOregon.org.

Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

NPSO President's Message

by Kelli Van Norman

Coming up soon it will be time to renew your annual NPSO membership. Thank you for being a dues-paying member and understanding that your funds contribute to NPSO's mission of enjoying, conserving, and studying Oregon's native plants and habitats. But today I'd like to encourage you to also consider volunteering with NPSO, either at your local chapter or at the state level. Chapters need officers, meeting organizers, hike organizers and leaders, and public outreach specialists. There are officer positions on the state board as well as openings on long-standing committees such as Rare & Endangered Plants, Fellows, and Native Plant Appreciation Week. There are also committees that have been unfilled for years, such as the Education Committee, which is just waiting for one or more volunteers with a passion to pick it up.

There are many who have been contributing their efforts to NPSO for several years, and I thank all of you. NPSO would not exist without you. My own volunteering experience with NPSO started in Corvallis when I attended work parties at the native plant garden in Avery Park. My regular job finally settled down when I moved to Portland so I volunteered to be state board secretary—a good position from which to learn about the organization's inner workings. After 5 years of that, I spent two years as state board president and then quite a few years as immediate past president. Last winter Dan Luoma called me to say Judi Sanders was ready to step down as president and asked if I would consider being president again—just for one year. I agreed because I enjoy the quarterly board meetings and because I know that the responsibilities are shared.

I relate this in part to ask that someone step up to run for state board president, but also to remind everyone that there are many positions available. None are lifetime commitments. If we all do our part, even if only for a year or two, it will invigorate NPSO with fresh ideas and energy.



November Night

Listen. .
With faint dry sound,
Like steps of passing ghosts,
The leaves, frost-crisp'd, break from the trees
And fall.

-Adelaide Crapsey



NPSO/EarthShare Oregon Liaison Volunteer Needed

EarthShare Oregon (ESOR) is a workplace fundraising entity for environmental organizations. NPSO is a member group and as such we receive funding through ESOR. We are looking for an NPSO volunteer to be our liaison to ESOR. The main tasks are to coordinate the annual affiliation agreement in the spring and to track points earned by NPSO. This is a key position as we rely on these funds to support NPSO field research grants, Institute for Applied Ecology interns, Oregon Flora Project, publishing the *Kalmiopsis* journal, and mailing out the *Bulletin*. If you are interested, please contact Kelli Van Norman, president@npsoregon.org.

NPSO CALENDAR

State Notes

NPSO Annual Meeting 2015

May 29-31, Friday-Sunday

The Mid-Columbia Chapter will host the 2015 Annual Meeting of the Native Plant Society of Oregon in Hood River. Details will appear in future *Bulletins* and online.

Blue Mountain

For information on Blue Mountain Chapter call Jerry Baker, 541-566-2244.

Meetings: The chapter will meet on the 3rd Wednesday of the month, continuing on into next spring. All meetings will be in the Theater Room of The Prodigal Son Brewery in Pendleton.

November 19, Wednesday, 7 pm

Meeting/Talk: Tribal Restoration Project. Olin Anderson will be presenting on a tribal restoration project on the Confederated Tribes of the Umatilla Indian Reservation. Location: Theater Room at The Prodigal Son Brewery, 230 SE Court Ave., Pendleton. No-host food, drink and munchies available as needed.

Cheahmill

For more information, visit the chapter Web site, www.oregon-nativeplants.com. To be added to the e-mail list for upcoming programs and events, please contact cheahmillchapternpsocomcast.net.

November 20, Thursday, 7 pm

Program: Wilderness Act at 50. Come celebrate the 50th anniversary of the Wilderness Act with Bridget Callahan, wilderness campaign organizer for Oregon Wild. Celebrate past victories, explore the value of wilderness, and identify present and future obstacles to expand Oregon's wilderness. Callahan will highlight the botanical treasures of the Kalmiopsis Wilderness, an area that is host to Oregon's highest concentration of rare plants, but is currently threatened by logging, mining, and illegal motorized vehicles. Doors open at

6:45 pm for socializing. Meeting/Program starts at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Hwy 99W and SW 2nd St.). Parking lot entrances on Adams and 2nd. For more information contact: Lisa Blackburn, 503-538-3976 or blackburnlisag@gmail.com.

There will be no chapter meeting in December.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. **BRING WATER AND LUNCH.** Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. A sample waiver form is available at http://npsoregon.org/documents/NPSO_waiver.pdf. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Dogs are not allowed. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. You must pre-register for all events. National Forests require a Northwest Forest Pass for some field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12. A trip leader checklist and sample waiver form are available at: <http://npsoregon.org/calendar.html>

January 22, Thursday, 7 pm

Program: Ecological Studies of the Northern Oregon Cascades. Jake Hurlbert will describe the ecology of the Cascades area, mostly from the Estacada drainage up to Mr. Hood. He will stress the relationship between the members of the Oregon biota, including mushrooms, plants, and a few insects. Hurlbert is a member of several mycological societies in the Pacific NW. Recently he developed eight regional biota studies of Oregon. Doors open at 6:45 pm for socializing. Meeting/Program starts at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Hwy 99W and SW 2nd St.). Parking lot entrances on Adams and 2nd. For more information contact: Lisa Blackburn, 503-538-3976 or blackburnlisag@gmail.com.

Corvallis

For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Jordan Brown at co_president@NPSOregon.org or 253-820-3934.

November 9, Sunday, 8 am

Field Trip: Mushroom Hike. Dr. Dan Luoma, long-time chapter board member and mycologist extraordinaire, will lead a mushroom-focused outing, destination to be determined. Bring a lunch, basket or bag, hiking attire, and be prepared for rain. Location: meet in Corvallis at the OSU parking lot SW of The Beanery on 26th and Monroe for carpooling and expect to be back in the late afternoon. For more information, contact Dan at 541-752-8860.

November 10, Monday, 7:30 pm

Meeting/Talk: Botanical Gems of Alaska. Dr. Steve Carpenter, author of *Wildflowers of Marys Peak Meadows* and *Wildflowers of Bald Hill Meadows*, will share with us the unique habitats and plants encountered on his two month long Alaskan adventure that covered over 7,500 miles. He will discuss the diversity of habitats he visited, from the

vast Taiga forests to plant communities considered as subalpine in Oregon, with a focus on the most beautiful and interesting plants of each. He will also touch on current uses of plants by Native Americans of the region as well as how to find some of these special places on your own. Location: Avery House in Avery Park. For information, contact Jordan at 253-820-3934 or brownj@science.oregonstate.edu.

November 16, Sunday, 1 pm

Work Party: Avery House Native Plant Garden. Esther McEvoy, long time chapter board member and owner of the local Willamette Gardens native plant nursery, will be leading as we help get the garden ready for winter. We will focus on fall pruning, general clean up, and weeding. We'll also go through the process of taking hardwood cuttings and dividing some of the native plants for the spring garden sale and for people to take home. Snacks will be provided, but come prepared to work in the garden with gloves, some gardening tools if you've got them, and rain gear if necessary. Contact Esther at 541-754-0893 if you're interested, plan to come, or need more information.

December 8, Monday, 7 pm

Meeting: Annual Corvallis Winter Party! Come one, come all and join us for some holiday cheer and appreciation for another year with our native plants and enthusiasts. Please bring some digital images of your botanical adventures and a dessert to share with the group. Location: Loren and Flo will be hosting at their home, 3420 SW Willamette Ave., Corvallis. For more information, contact Loren at loren.russell@comcast.net.

Emerald

Visit the Emerald Chapter Web site at <http://emerald.npsoregon.org> to learn more about the latest chapter events, plant lists & botanical information about Lane County plants & the people who love them.

Meeting Location: Conference Room at Lane County Mental Health, 2411 Martin Luther King Blvd. Turn off MLK Blvd. onto Scout Access Rd.

across from Autzen and take the first left into the parking lot. The meeting room is on the right side as you face the building.

November 20, Thursday, 7 pm

Program: Willamette Forest Roads Investment Strategy. Virtually everything that people value in our National Forests touches, at some point, the road system. The Willamette National Forest is working on developing a strategy that will be used to guide road management decisions in the future. Matt Peterson, road investment strategy team leader, will describe how the Forest Service is developing the investment strategy and how the public can continue to be involved. Meeting location: Conference Room at Lane County Mental Health, see above for directions. For more information call Jenny at 541-225-6440.

December 18, Thursday, 7 pm

Event: Holiday Social and Picture Show. Bring 10 to 12 digital photos and a snack to share if you wish. Come and socialize with others who share your interest in native plants. Meeting location: Conference Room at Lane County Mental Health, see above for directions. For more information call 541-349-9999.

High Desert

For information, visit the High Desert Chapter website: www.highdesertnpsoregon.org and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email highdesertnps@gmail.com.

Klamath Basin

For information, visit the Klamath Basin Chapter website: <http://klamathbasin-nps.com> or contact the chapter president, Melissa Schroeder pres@klamathbasinnps.com.

November 6, Thursday, 6:30 pm

Meeting: Monthly Chapter Meeting. Location: DOW 252 on the Oregon Tech campus. See the chapter website for more information and directions.

December 4, Thursday, 6 pm

Meeting: Holiday Potluck. Bring your favorite dish and an electronic copy of your favorite (up to 10) plant photos from 2014! Location: Klamath Falls Nature Conservancy office (226 Pine St.). See the chapter website for more information.

Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at wusara96@yahoo.com.

November 20, Thursday, 7:30 pm

Meeting/Program: The Efforts of Mt. Adams Resource Stewards to Revitalize Rural Communities through Environmental Stewardship. Jay McLaughlin, executive director of Mt. Adams Resource Stewards (MARS), will present on MARS' efforts over the past ten years to grow a stewardship economy, conserve working forestlands, collaborate on forest restoration initiatives, and promote more sustainable forest management practices. These efforts have largely focused on the Mt. Adams region and include the recent acquisition of the Pine Flats Tract, adjacent to Conboy National Wildlife Reserve. Jay has an MS in Forestry from Yale and has worked both as a forester and as an educator. Location: Room 1.366, Columbia Gorge Community College, The Dalles.

Portland

If you would like to receive the chapter's semi-official e-mail newsletter, The Calochortus, e-mail Don Jacobson at donj-photo@gmail.com.

Facebook: Take a look at our Facebook page. Native Plant Society of Oregon-Portland-Chapter. It will have the most up-to-date information on hike and other events as well as great plant pictures.

Meeting location: The Portland Chapter meets the second Thursday of most months in the Metro Building at 600 NE Grand Ave., Portland. Enter from NE Irving St. on the north side of the building and walk across the upper plaza to the entrance (not the door on 600 NE Grand Ave.). An attendant will

let you in and direct you to the meeting room upstairs. Meetings and programs begin at 7 pm.

November 13, Thursday, 7 pm

Program: Forest Park: Portland's Greatest Natural Resource. Biologist Marcy Houle will discuss the natural ecology of Portland's Forest Park, one of the world's largest urban parks and our nation's only urban wilderness. Marcy has researched Forest Park for over 30 years and will highlight its history, detail the five things that make this park unique, and explain how we, as stewards, can protect its native plants and animals. Marcy will be selling her book, *One City's Wilderness: Portland's Forest Park* (3rd Ed). Meeting location: Metro building, see above for details. For information, contact Mary, alphiesmith@comcast.net or 503-288-4340.

December 11, Thursday, 7 pm

Program: Member's Party — Slide Sharing. Come with your electronic slides of native flora from Oregon and beyond for our annual year end celebration of the wildflower season. Bring holiday goodies to share. Non-members are welcome. Meeting location: Metro building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

Siskiyou

To join the Siskiyou Chapter email list: Send an email, from the address at which you want to receive announcements, to announce-join@siskiyou.npsoregon.org. No subject or message is required. You will get a confirmation email. If you would like to volunteer to lead a hike in 2014, make a suggestion, or provide feedback regarding the field trip program please contact Sasha Joachims at: sasharain71@gmail.com.

November 20, Thursday, 7 pm

Program: The Owyhee Canyonlands. Discover the ecological, geologic, cultural, and recreational wonders of Oregon's "Grand Canyon" - the Owyhee Canyonlands. Corie Harlan, Oregon Natural Desert Association's Owyhee coordinator, will share photos, tips, and insights about one of Oregon's most remote and wild places. Corie is

a native Oregonian with a background in environmental science, business, and communications. Refreshments at 6:45, meeting and program at 7 pm. Location: Southern Oregon University, Cascade Science Bldg. (the old Cascade Dorms), Room CSC 114. For more information contact Dave at 541-535-5355.

December 11, Thursday, 6:30 pm

Program: The Arctic National Wildlife Refuge. Jeff Jones, professional wildlands photographer, will share his art and knowledge of the Arctic. This is our annual holiday season potluck with lots of goodies and surprises. Feasting begins at 6:30, program at 7 pm. Location: Talent Community Center, 208 E. Main, Talent. For more information contact Dave at 541-535-5355.

South Coast

This is a newly formed chapter. For more information, contact the chapter president, Alexis Brickner, alexis.brickner@gmail.com.

Umpqua Valley

Visit www.umpquavalleynativeplants.com for more information on chapter activities or to be added to our e-mail list.

Willamette Valley

For program information, contact John Savage at 503-399-8615 or Alexandra Ninneman at 503-391-4145.

William Cusick

Visit our Web site at <http://williamcusick.npsoregon.org> or contact Susan Geer at 541-963-0477 or Emelie Montgomery-Jones at 541-963-3339 for updates and general information. Chapter notices and communications are done primarily through a Google group. Members are reminded to contact Susan or Emelie if they want to be added to the Google group, or if they do not have internet access and want to be contacted by phone for events.



OTHER EVENTS

Siskiyou Field Institute

November 14, Friday, 6:30 pm

Talk: The Siskiyou Crest: Trails, Treks, and Biodiversity. Luke Ruediger will give a presentation about the Siskiyou Crest as it extends from the Coast Range of northern California to the southern Cascade Mountains near the Cascade-Siskiyou National Monument. Renowned for its biodiversity and the amazing connectivity corridor this unusual east-west trending mountain range provides, the region also offers miles of back-country trails and wildland habitats. This lecture is part of the Friday Evening Free Lecture Series. Location: Deer Creek Center in Selma. For more information, visit thesf.org or call 541-597-8530.

Portland Garden Club

November 20, Thursday, 9:30 am

Talk: Sustainable Garden Design. Vanessa Nagel will speak about horticulture, conservation, and garden design. This event is open to the community. Coffee is served at 9:30 and the presentation begins at 10:15 am. Location: 1132 SW Vista Ave., Portland (corner of SW Main and SW Vista near the north end of the Vista Bridge). For more information, visit theportlandgardenclub.org or call 503-222-2845. their fungus fun artwork.

continued on page 6

Eugene Natural History Society

November 21, Friday, 7:30 pm

Talk: Praise the Dead: the Ecological Role of Dead Trees. George Wuerthner will be the lecture series speaker for November. Free and open to the public. Location: Room 100, Willamette Hall, on the University of Oregon campus. For more information, visit <http://pages.uoregon.edu/enhs/calendar/default.html#upcoming> or call David Wagner at 541-344-3327.

Mount Pisgah Arboretum

November 29, Saturday, 1-3 pm

Walk: Forest Ecology. Explore the plants and animals of the Arboretum and their place in our native ecosystems with ecologist and LCC instructor, Pat Boleyn. From oak savannah to conifer and incense cedar forests, the interrelationships are fascinating and complex. Cost: \$5, Members Free.

Location: meet at the Arboretum Visitor Center, 34901 Frank Parrish Rd., Eugene. For more information, visit mountpisgaharboretum.com/ or call 541-747-3817.



Autumn

I love the fitful gust that shakes
The casement all the day,
And from the glossy elm tree takes
The faded leaves away,
Twirling them by the window pane
With thousand others down the lane.

I love to see the shaking twig
Dance till the shut of eve,
The sparrow on the cottage rig,
Whose chirp would make believe
That Spring was just now flirting by
In Summer's lap with flowers to lie.

I love to see the cottage smoke
Curl upwards through the trees,
The pigeons nestled round the cote
On November days like these;
The cock upon the dunghill crowing,
The mill sails on the heath a-going.

The feather from the raven's breast
Falls on the stubble lea,
The acorns near the old crow's nest
Drop pattering down the tree;
The grunting pigs, that wait for all,
Scramble and hurry where they fall.

-John Clare

Take Your Best Shot: 2015 Native Plant Appreciation Week Poster Contest

Summer's over . . . but remember all those great photos you took of native plants in Oregon this spring and summer? Now that you're probably spending more time indoors, you could take this opportunity to select the best of your photos and submit them for the Native Plant Appreciation Week Poster Contest. Entries must be submitted online on the NPSO Photo Gallery (<http://npsoregon.org/photos/main.php>) in the album titled "2015 NPAW Photo Contest." Each person may enter two photos of Oregon native plants (photographed in Oregon with photographer name, species or other description, family, common name, location, and date). All entries must be received by December 15, 2014. Photos will be rated on subject matter, composition, and technical excellence. Complete details can be found at: <http://npsoregon.org/photocontest.html>. If you have any questions, please email Judi Sanders, judi.sanders@gmail.com.

Grant Proposals Requested

NPSO will continue to sponsor small field research grants. The objectives of the program are:

1. To stimulate basic field research into the biology and distribution of Oregon's native and naturalized flora and vegetation, particularly in the more remote areas of the state.
2. To promote native plant conservation through better understanding of Oregon's flora and vegetation and the factors affecting their survival.

Research proposals are due annually by March 1. The guidelines are available online at: www.npsoregon.org/grants.html.

For a paper copy of the program policy and guidelines, contact:

Dan Luoma, Field Research Grants Committee Chair
5 NW Edgewood Dr.
Corvallis, OR 97330
541-752-8860



Brown's peony (Paeonia brownii), Rattlesnake Falls, Klickitat County Wash., May 2013.

DELL RHODES

Annual Meeting, cont'd from page 1

to the moisture-laden west side of the Cascades with many variations in between. Among the natural features of the diverse landscapes are basalt cliffs, waterfalls, snowcapped mountains (Mt. Hood on the south side of the river at 11,250 ft. and Mt. Adams on the north at 12,280 ft.), as well as bogs, meadows, windswept slopes and arid sagebrush, rabbit brush and bitterbrush flats. The profusion of habitats creates a relatively small area in which there are over 800 species of flowering plants, including 15 found nowhere else in the world. Of the fifteen endemics, there is a good chance that *Penstemon barrettiae* (Barrett's Penstemon), *Lomatium columbianum* (Columbia Desert Parsley), *Lupinus latifolius* (Columbia Gorge Broadleaf Lupine), *Astragalus hoodianus* (Hood River Milk-Vetch) and possibly more, will be in bloom during the annual meeting. As Russ Jolley, author of the comprehensive field guide *Wildflowers of the Columbia Gorge* points out, "The Gorge, with its wide range of elevations and microclimates is home to more species of flowering plants than any other region in the Pacific Northwest."

Meeting activities will be centrally located at the Hood River Inn. Hood River is a popular vacation area for



DELL RHODES

Barrett's penstemon (Penstemon barrettiae), an eastern Gorge endemic, should be in bloom during the 2015 Annual Meeting.



DELL RHODES

The Columbia River Gorge east of Hood River, as seen from The Dalles Mountain Road in April, 2014.

Portland residents and a must-visit area for wind surfers, kite boarders, bicyclists, and hikers from all over the world. The Inn sits on the shore of the Columbia River adjacent to the Port of Hood River bridge that connects Hood River and Bingen / White Salmon Wash., providing easy access to areas on the north (Washington State) side of the river. Oregon Highway 35, which intersects I-84 at the exit for the Hood River Inn, provides access to Mount Hood and areas south of the river. Rooms at the Inn will be held until May 1 for meeting participants, and other sites and types of lodging are available in the area.

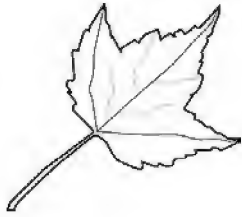
Among the plans for this year's annual meeting are outings on both Friday and Sunday in addition to a full roster of hikes planned for Saturday. The Friday and Sunday trips include probable visits to local native plant nurseries and restoration sites. There will be a presentation on Friday night following an appetizer buffet in The Columbia Room of the Hood River Inn. Jeanette Burkhardt, watershed planner for the Yakama Nation Fisheries, will discuss the native plant restoration effort occasioned by the 2011 removal of the Condit Dam on the

White Salmon River.

The featured speaker at the Saturday night banquet will be Keith Karoly, professor of biology at Reed College in Portland, who will talk about the ecology and evolution of wildflower colors. He describes his lecture: "After reviewing the biology of floral pigments, I will present a number of case studies highlighting the diverse roles known for floral pigments, and end with an account of research in my lab which focuses on the evolutionary divergence of the pale rock larkspur (*Delphinium leucophaeum*, a rare PNW endemic) from its more widespread congener, Nuttall's larkspur (*Delphinium nuttallii*)."

Look for more detailed information on field trips, lodging, and meals as well as a registration form in the February issue of the NPSO *Bulletin* and on the annual meeting web pages that will be accessible via the NPSO website. The Mid-Columbia Chapter looks forward to your participation in the 2015 Annual Meeting.





Please Nominate Outstanding NPSO Members for Our Fellows Award

The NPSO Fellows Committee is ready to accept nominations for new NPSO Fellows for 2015. The Fellows award recognizes individuals for outstanding service to our society. Nominations can come from a chapter, an individual, or a group. A chapter may wish to nominate their founder or other active member. You may wish to nominate an outstanding teacher of botany or a present or former officer or board member.

Fellows receive a lifetime NPSO membership, as well as a ceremony and plaque at the Annual Meeting.

Your nominating letter can be sent by email. It should contain biographical and background information about the nominee. Please also provide a photo of the prospective Fellow or Fellows. Your nomination will move from this committee to the state board for approval. When approved, we will make a plaque and plan a ceremony for our next annual meeting - this coming year to be held in Hood River in late May.

Please send letters of nomination by the end of 2014 to Jan Dobak at npsop-dx@gmail.com.

Fall, Leaves, Fall

Fall, leaves, fall; die, flowers, away;
Lengthen night and shorten day;
Every leaf speaks bliss to me
Fluttering from the autumn tree.
I shall smile when wreaths of snow
Blossom where the rose should grow;
I shall sing when night's decay
Ushers in a drearier day.

-Emily Brontë

New Titles for Your Bookshelf

The native wildflowers have shriveled and gone to seed, the weather has lost its warmth, and you find yourself spending more time indoors, ensconced in a comfortable chair. November is here. The perfect month to check out some new books. Here are a few titles that have been released in the past year.

Ancient Pathways, Ancestral Knowledge: Ethnobotany and Ecological Wisdom of Indigenous Peoples of Northwestern North America.

This is a two-volume work by Nancy J. Turner, a professor in the School of Environmental Studies at the University of Victoria. Volume I presents the historical uses of plants by Indigenous peoples, noting the importance of certain species among various cultures. Volume II focuses on the relationships between local habitats and the development of Indigenous cultural practices, often based on management

of plant resources. For additional information, visit the publisher's website: <http://www.mqup.ca/ancient-pathways--ancestral-knowledge-products-9780773543805.php>.

Tidal Wetlands Primer: An Introduction to Their Ecology, Natural History, Status, and Conservation.

Geared towards students and professionals in the environmental fields, this book provides an overview of the different types of wetlands in North America. The emphasis is on vegetated wetlands: marshes and swamps. It also discusses the history, current status, and likely future of these unique habitats. Author Ralph W. Tiner is an adjunct professor in the Department of Environmental Conservation at the University of Massachusetts Amherst. For additional information, visit the publisher's website: <https://www.umass.edu/umpress/title/tidal-wetlands-primer>.

Trees and Shrubs of the Pacific Northwest.

A comprehensive field guide that covers 568 species of woody plants that can be found in Oregon, Washington, British Columbia, and northern California. Each entry includes family, scientific and common names, flowering seasons, and size of each plant, as well as a range map and color photographs of the plant's habitat and distinguishing characteristics. Co-author Mark Turner is a professional photographer and has been giving book presentations at NPSO chapters. Co-author Ellen Kuhlmann is a professional botanist. For more information and to see a sample page of the book, visit <http://turnerphotographics.com/books/trees>.



NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

Address _____

City _____ State _____ Zip+4 _____

☐ Check to receive electronic *Bulletin*, sent by email in lieu of paper.

Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Native Plant Society of Oregon

P.O. Box 80714

Portland, OR 97280

DUES include monthly *Bulletin* and *Kalmiopsis* when published.

Membership is for the calendar year. New memberships enrolled after July 1 include the following year.

☐ New

☐ Renewal

☐ Student – \$12

☐ Regular – \$25

☐ Family – \$35

☐ Sustaining – \$60

☐ Patron – \$125

☐ Life Membership – \$500

☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$25 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____

Leighton Ho Memorial Field Botany Fund \$ _____

Augusta Rockafellar Memorial Scholarship \$ _____

Rare and Endangered Plant Conservation Fund \$ _____

Friends of the Oregon Flora Project \$ _____

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and changes of address (include old address) should be sent to the Membership Chair. Changes of address may also be e-mailed to Membership@NPSOregon.org.

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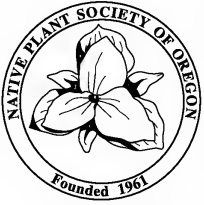
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www.oregonflora.org

Friends of the Oregon Flora Project

This is the twentieth year of the Oregon Flora Project, and this notable anniversary coincides with the publication of the first volume of the *Flora of Oregon*—a very notable accomplishment indeed! Curious about what this volume will contain? Here are some numbers:

1053—taxa with full floristic treatments

462—taxa illustrated

13—biographical sketches of historic and contemporary Oregon botanists

50—sites featured for exploring botanical diversity

50+ —color photographs of ecoregions and plant communities

82—individuals acknowledged who have contributed more than \$1,000 since 2000

68—individuals acknowledged (not listed above) who have contributed to OFP over 10 times

Here is our challenge: we want to add 18 more names to our list of highest donors, and acknowledge 100 dedicated and generous supporters of this amazing project. There are 3 reasons we need your contributions now:

1—your donation will be matched by NPSO (up to \$10,000) through the end of the year

2—the manuscript is going to press in November

3—up-front publication costs that OFP must provide will exceed \$40,000

It all adds up—your support of the OFP will help us bring twenty years of research into your hands. Can we count on you? Donations can be made online (www.oregonflora.org/supportOFP.php), or with a check payable to Ag. Research Fdn. (with “OFP” on the memo line) and mailed to: Agricultural Research Foundation, 1600 SW Western Blvd Ste. 320, Corvallis, OR 97333.



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation and study of Oregon's native plants and habitats

VOLUME 47, No. 10

DECEMBER 2014/JANUARY 2015

Who's in that Name? Meriwether Lewis

by Al Schneider, a former English professor who now runs the web site swcoloradowildflowers.com. He has contributed to the Colorado Native Plant Society in a variety of roles.

This article originally appeared in Aquilegia, Volume 34, Number 1, the newsletter of the Colorado Native Plant Society. In the July 2014 Bulletin, we looked at brief biographies of three early 19th century botanists (Barton, Pursh, and Nuttall) whose names are now often associated with Meriwether Lewis. In this issue, we look at Lewis.

Meriwether Lewis was born in Virginia in 1774 of a father who fought in the Revolutionary War and was a friend and neighbor of Thomas Jefferson. From early in his life, Meriwether acquired skills, had experiences, and met

people that molded him into a perfect leader and skilled scientist. From early in life he was an avid outdoorsman, often venturing out on hunting trips (in winter or summer, in daylight or dark) with only his dogs. Meriwether's mother's interest in natural history, especially plants, was a model and inspiration to him. At a young age he became a friend of the Cherokee, a fighter in the Whiskey Rebellion (where he served under Clark), and an officer on the Ohio frontier where he became a shrewd observer of the proper -- and improper -- treatment of the enlisted

man. He was well known and so highly respected that when Thomas Jefferson became President of the United States, he asked Meriwether Lewis to be his personal secretary and two years later wrote admiringly of him,

"It was impossible to find a character who to a compleat science in botany, natural history, mineralogy & astronomy, joined the firmness of constitution & character, prudence, habits adapted to the woods, & a familiarity with the Indian manners & character, requisite for this undertaking. All the latter qualifications Capt. Lewis has."

In 1803 Jefferson asked Benjamin Barton, famous botanist, University of Pennsylvania professor, and author of

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Lewisia oppositifolia

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOOregon.org>

E-mail Discussion List

To join, send a message to majordomo@tardigrade.net, with the following in the body of the message: `subscribe npsos`

General Business Address

P.O. Box 902
Eugene, OR 97440
or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

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Bulletin of the Native Plant Society of Oregon

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Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Plan Now for Native Plant Appreciation Week

Though the weather outside is frightful, the arrival of spring will be so delightful. While dreaming of spring, it's never too early to start planning for this year's Native Plant Appreciation Week, taking place April 26–May 2, 2015.

This is the largest coordinated public outreach event for the Native Plant Society of Oregon and an excellent opportunity for society chapters throughout the state to sponsor workshops, hikes, plant sales, etc. and help increase their chapter's visibility and membership.

We all get much busier as the weather improves so now is the time to plan. Be sure to post your activities in the NPSO *Bulletin* and to let the NPAW Committee know about them as well. Email any information to Judi Sanders at judi.sanders@gmail.com.

IT'S STILL RENEWAL TIME!

The NPSO membership year is January to December. Many of you have already renewed, but if you haven't yet, please do so before February 14, 2015 to ensure that you do not miss out on any of the *Bulletins*. Before you send in your renewal, it's a good idea to check the address label on this issue of the *Bulletin*. If it shows 2015 (or a later year) along the top, you are all set for the coming year and do not need to renew now.

It's also a good time to consider a tax-deductible contribution to our special funds. The Leighton Ho Memorial Award is used for research projects in western Oregon. The Rare and Endangered Plant Fund supports work with our most threatened plants. The Augusta Rockafellar and Jean Davis Memorial Scholarships are awarded annually to a botany student at an Oregon college or university. You can also include a contribution to the Oregon Flora Project along with your dues.

Your membership and donations make it possible to carry out more of the many projects that are needed to pursue the goals of NPSO.

October 2014 State Board Meeting Highlights

by Lisa Blackburn, NPSO Secretary

At the June board meeting a motion was passed to purchase accident coverage option 2 (\$50,000 coverage for \$515/year). It was moved, seconded and passed to rescind the previous motion because further research found that accident insurance will likely not meet NPSO's needs.

David Atkins, attorney and founder of Nonprofit Support Services in Eugene, spoke to the Board about insurance and liability issues. The NPSO State Board has asked — What are our responsibilities and risk? Should we consider purchasing some type of insurance? Is the structure of NPSO still correct when considering responsibilities and risk? Based on the discussion after Mr. Atkins' presentation, it was determined that NPSO does not need directors and officers insurance but should get general liability insurance. President Kelli Van Norman, Treasurer Cyndi Dion, and Dan Luoma from the Budget Committee will obtain 2–3 new bids for general liability insurance and present them at the next board meeting.

continued on page 8

NPSO CALENDAR

State Notes

State Board Meeting

January 31, Saturday, 10 am-2 pm

The next state board meeting will be hosted by the Corvallis Chapter. Location: 2087 Cordley Hall on the Oregon State University campus, parking information and directions to be provided.

NPSO Annual Meeting 2015

May 29-31, Friday-Sunday

The Mid-Columbia Chapter will host the 2015 Annual Meeting of the Native Plant Society of Oregon in Hood River. Details will appear in future *Bulletins* and online.

Blue Mountain

For information on Blue Mountain Chapter call Jerry Baker, 541-566-2244.

Meetings: The chapter will meet on the 3rd Wednesday of the month, continuing on into next spring. All meetings will be in the Theater Room of The Prodigal Son Brewery in Pendleton.

December 17, Wednesday, 7 pm

Meeting/Talk: Tribal Restoration Project. Umatilla NF Botany Program. Joan Frazee, botany program manager on the Umatilla National Forest, will share program highlights and challenges in TES plants, invasive plants and native plants. Location: Theater Room at The Prodigal Son Brewery, 230 SE Court Ave., Pendleton. No-host food, drink and munchies available.

Cheahmill

For questions, or to be added to the Cheahmill Chapter's email list for reminders of upcoming programs and events, please contact the Cheahmill Chapter President at ch_president@NPSOregon.org.

There will be no chapter meeting in December.

January 22, Thursday, 7 pm

Program: Ecological Studies of the Northern Oregon Cascades. Jake Hurlbert will describe the ecology of the Cascades area, mostly from the Estacada drainage up to Mr. Hood. He will stress the relationship between the members of the Oregon biota, including mushrooms, plants, and a few insects. Hurlbert is a member of several mycological societies in the Pacific NW. Recently he developed eight regional

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. **BRING WATER AND LUNCH.** Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. A sample waiver form is available at http://npsoregon.org/documents/NPSO_waiver.pdf. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Dogs are not allowed. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. You must pre-register for all events. National Forests require a Northwest Forest Pass for some field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12. A trip leader checklist and sample waiver form are available at: <http://npsoregon.org/calendar.html>

biota studies of Oregon. Doors open at 6:45 pm for socializing. Meeting/Program starts at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Hwy 99W and SW 2nd St.). Parking lot entrances on Adams and 2nd. For more information contact: Lisa Blackburn, 503-538-3976 or blackburnlisag@gmail.com.

February 26, Thursday, 7 pm

Program: Rock Stars of the Western Cascades. Emerald Chapter member Tanya Harvey will show photos of rock-loving plants that grow in Oregon's Western Cascades. She will talk about the different types of rocky habitats, where they can be found, and share some good locations to look for them. For information about her plant explorations, visit her website, westerncascades.com. Tanya will bring her art, photo cards, and bird ornaments for sale (see tanyaharveydesign.com). Doors open at 6:45 pm for socializing. Meeting/Program starts at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Hwy 99W and SW 2nd St.). Parking lot entrances on Adams and 2nd. For more information contact: Lisa Blackburn, 503-538-3976 or blackburnlisag@gmail.com.

Corvallis

For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Jordan Brown at co_president@NPSOregon.org or 253-820-3934.

December 8, Monday, 7 pm

Meeting: Annual Corvallis Winter Party! Come one, come all and join us for some holiday cheer and appreciation for another year with our native plants and enthusiasts. Please bring some digital images of your botanical adventures and a dessert to share with the group. Location: Loren and Flo will be hosting at their home, 3420 SW Willamette Ave., Corvallis. For more information, contact Loren at loren.russell@comcast.net.

Emerald

Visit the Emerald Chapter Web site at <http://emerald.npsoregon.org> to learn more about the latest chapter events, plant lists & botanical information about Lane County plants & the people who love them.

Meeting Location: Conference Room at Lane County Mental Health, 2411 Martin Luther King Blvd. Turn off MLK Blvd. onto Scout Access Rd. across from Autzen and take the first left into the parking lot. The meeting room is on the right side as you face the building.

December 18, Thursday, 7 pm

Event: Holiday Social and Picture Show. Bring 10 to 12 digital photos and a snack to share if you wish. Come and socialize with others who share your interest in native plants. Meeting location: Conference Room at Lane County Mental Health, see above for directions. For more information call 541-349-9999.

January 15, Thursday, 7 pm

Program: Rock Stars of the Western Cascades. Tanya Harvey will show photos of rock-loving plants that grow in Oregon's Western Cascades. She will talk about the different types of rocky habitats, where they can be found, and share some good locations to look for them. For information about her plant explorations, visit her website, westerncascades.com. Tanya will bring her art, photo cards, and bird ornaments for sale (see tanyaharveydesign.com). Location: Conference Room at Lane County Mental Health, see above for directions. For more information call Kim at 541-726-8057.

February 19, Thursday, 7 pm

Program: Knobcone Pine and KMX (Knobcone x Monterey Pine Cross) in Lane County. Charlene Simpson tells us about recent Lane County sightings of knobcone pine further north than previously documented. We may have an identification problem. Perhaps we are seeing the hybrid knobcone x Monterey pine cross created by geneticists for the forest products industry. To be accepted for listing by the Oregon Flora Project a taxon must be reproducing

and maintaining away from cultivation. Location: Conference Room at Lane County Mental Health, see above for directions. For more information call 541-349-9999.

High Desert

For information, visit the High Desert Chapter website: www.highdesertnpsoregon.org and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email highdesertnps@gmail.com.

Klamath Basin

For information on the Klamath Basin Chapter, visit <http://klamathbasinnps.com> or contact the chapter president, Melissa Schroeder, kb_president@NPSOregon.org.

December 4, Thursday, 6 pm

Meeting: Holiday Potluck. Bring your favorite dish and an electronic copy of your favorite (up to 10) plant photos from 2014! Location: Klamath Falls Nature Conservancy office (226 Pine St.). See the chapter website for more information.

Happy New Year! There will be no chapter meeting in January.

February 5, Thursday, 6:30-7:30 pm

Meeting/Talk: Williamson River Delta Restoration. Chapter president, Melissa Schroeder, will give a talk on The Nature Conservancy's ongoing restoration efforts in the Williamson River Delta. Location: Oregon Institute of Technology Campus, DOW Center for Health Professions, Room 252.

Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at mc_president@NPSOregon.org.

December 18, Thursday, 7:30 pm

Meeting: Holiday Cheer! Bring a contribution for our holiday gathering. We will also have a discussion of our chapter organization (for the Handbook) and a final chance to group-edit the plans and materials for the annual meeting we're hosting in May. Location:

Room 1.366, Columbia Gorge Community College, The Dalles.

There will be no chapter meeting in January.

Portland

If you would like to receive the chapter's semi-official e-mail newsletter, The Calochortus, e-mail Don Jacobson at donj-photo@gmail.com.

Facebook: Take a look at our Facebook page. Native Plant Society of Oregon-Portland-Chapter. It will have the most up-to-date information on hike and other events as well as great plant pictures.

Meeting location: The Portland Chapter meets the second Thursday of most months in the Metro Building at 600 NE Grand Ave., Portland. Enter from NE Irving St. on the north side of the building and walk across the upper plaza to the entrance (not the door on 600 NE Grand Ave.). An attendant will let you in and direct you to the meeting room upstairs. Meetings and programs begin at 7 pm.

December 11, Thursday, 7 pm

Program: Member's Party — Slide Sharing. Come with your electronic slides of native flora from Oregon and beyond for our annual year end celebration of the wildflower season. Bring holiday goodies to share. Non-members are welcome. Meeting location: Metro building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

January 8, Thursday, 7 pm

Program: Larkspurs in the Wake of the Flood: Flower Color Diversification in a PNW Wildflower. Keith Karoly, professor of biology at Reed College, will discuss his current research on the evolution of native larkspurs in the Columbia River Gorge and western Oregon, with an emphasis on understanding how events since the last Ice Age have shaped their current diversity and distribution. For more information, visit his website: academic.reed.edu/biology/professors/kkaroly/research.html. Meeting location: Metro

building, see above for details. Contact: Mary at alphiesmith@comcast.net or 503-288-4340.

February 12, Thursday, 7 pm

Program: (Rescheduled from November 2014) Forest Park: Portland's Greatest Natural Resource. Biologist Marcy Houle will discuss the natural ecology of Portland's Forest Park, one of the world's largest urban parks and our nation's only urban wilderness. Marcy has researched Forest Park for over 30 years and will highlight its history, detail the five things that make this park unique, and explain how we, as stewards, can protect its native plants and animals. Marcy will be selling her book, *One City's Wilderness: Portland's Forest Park* (3rd Ed). Meeting location: Metro building, see above for details. For information, contact Mary, alphiesmith@comcast.net or 503-288-4340.

Siskiyou

To join the Siskiyou Chapter email list: Send an email, from the address at which you want to receive announcements, to announce-join@siskiyou.npsoregon.org. No subject or message is required. You will get a confirmation email. If you would like to volunteer to lead a hike in 2015, make a suggestion, or provide feedback regarding the field trip program, please contact Sasha Joachims at: sasharain71@gmail.com.

December 11, Thursday, 6:00 pm

Holiday Potluck: Silent Auction and ANWR. Jeff Jones is co-author of *Arctic Sanctuary: Images of the Arctic National Wildlife Refuge* and has been photographing this vast, remote area since 1990. Learn more at lumnos.com. Program begins around 7 pm. Bring a potluck dish, table service (plate, silverware, glass, cup) and packets of seeds for the native plant seed exchange. Location: Talent Community Center, 206 E Main in Talent. Information: contact Dave at 541-535-5355.

January 15, Thursday, 7 pm

Program: Celebrating the 50th Anniversary of the Wilderness Act at 50. Celebrate past victories, explore the value of wilderness, and identify present and future obstacles to expand Oregon's wilderness. Bridget Callahan

will highlight the botanical treasures of the Kalmiopsis Wilderness and discuss current campaigns to expand wilderness protections in Oregon including the Crater Lake Wilderness Proposal. Bridget is the wilderness campaign organizer for Oregon Wild. A native Oregonian, she graduated from the University of Oregon in 2008 and has since worked for political campaigns and conservation organizations across the state. Refreshments at 6:45, meeting and program at 7 pm. Location: Southern Oregon University, Cascade Science Bldg. (the old Cascades Dorms), Room CSC 114. For a campus map, visit: sou.edu/map. For more information, contact Kristi at 541-941-3744.

South Coast

This is a newly formed chapter. For more information, contact the chapter president, Alexis Brickner, sc_president@NPSOregon.org.

UPCOMING NATIVE PLANT SALES

Yamhill Soil and Water Conservation District

February 5-7, Thursday-Saturday

Both bare root and container plants will be available. Order forms and plant descriptions will be on-line in December. For more information, visit yamhills-wcd.org or call 503-472-6403.

Benton Soil and Water Conservation District

February 21-22, Saturday-Sunday, Order by January 31

Each February the District distributes native plant seedlings at low cost to encourage the use of native vegetation for erosion control, windbreaks, landscaping and wildlife habitat enhancement. Place your order by December 31 using the paper order form, or by January 31 on-line. Pick up your plants on February 21. If you miss the order deadline, come to the native plant market on

Umpqua Valley

Visit www.umpquavalley.npsoregon.com for more information on chapter activities or to be added to our email list.

Willamette Valley

For program information, contact John Savage at 503-399-8615 or Alexandra Ninneman at 503-391-4145.

William Cusick

Visit our Web site at <http://williamcusick.npsoregon.org> or contact Susan Geer at 541-963-0477 or Emelie Montgomery-Jones at 541-963-3339 for updates and general information. Chapter notices and communications are done primarily through a Google group. Members are reminded to contact Susan or Emelie if they want to be added to the Google group, or if they do not have internet access and want to be contacted by phone for events.

February 22, noon-3 pm. All plants at the market are \$3. Cash or check only. Many volunteer opportunities are available to help us prepare for and run the native plant sale. For more information, visit bentonswcd.org/programs/plant-sale or call 541-753-7208 to ask for a paper order form.

East Multnomah Soil and Water Conservation District

Late February, Order in January

Our annual native plant sale is a great way for you to landscape your yard with inexpensive, bare-root native trees, shrubs and ground covers. We typically open the sale for online pre-orders around the first weekend in January. The pre-order period remains open for about 3 weeks, and then plant pick-up day is generally the 3rd or 4th weekend in February. For more information, visit emswcd.org/native-plants/native-plant-sale.

Meriwether Lewis, cont'd from page 1
the first United States botany textbook to teach Meriwether Lewis the latest botanical knowledge and techniques for the 1804–1806 Expedition. Eventually Lewis carried a copy of Barton's book on the Expedition and he returned it to Barton inscribed with a note of thanks after the Expedition.

Lewis was an avid naturalist before he studied with Barton; after the studies he was skilled and driven. In the words of Earle Spamer and Richard M. McCourt (on *The Lewis and Clark Herbarium* CD produced by the Academy of Natural Sciences of Philadelphia):

"Meriwether Lewis had the soul of a plantsman. A typical day on the trail found him looking for plants along the Missouri River and in the surrounding Great Plains. Or near a campsite in a mountain meadow of the Rocky Mountains. Or at the salty mouth of the Columbia River where it drained into the Pacific Ocean. In dangerous places and at inopportune times, Lewis collected plants. So long as circumstances permitted, even in improbable situations, he collected. It was not only his duty to collect, it was his

passion. Equally remarkable, he wrote with enthusiasm about them in the voluminous journals and in numerous notes on the blotting papers used to dry the plants."

Lewis' descriptions could be brief but were often detailed. The following is from his account of *Clarkia pulchella*, named by Frederick Pursh in honor of expedition co-leader, Captain William Clark:

"... The corolla superior consists of four pale purple petals which are tripartite, the central lobe the largest and all terminate obtusely; they are inserted with a long and narrow claw on the top of the germ, are long, smooth & deciduous. There are two distinct sets of stamens the 1st or principal consists of four, the filaments of which are capillary, erect, inserted on the top of the germ alternately with the petals, equal short, membranous; the anthers are also four each being elevated with it's fillament, they are linear and rather flat, erect sessile, cohering at the base, membranous, longitudinally furrowed, twice as long as the fillament [and] naked, and of a pale purple color. the second set of stamens are very minute,

are also four, and placed within and opposite to the(them?) at the base, membranous, shorter than the fillaments, white, naked and appear not to form pollen.... This has the appearance of a monopetalous flower growing from the center of a four petalled corollar."

We can imagine how Lewis worked. He clipped or pruned plant parts or uprooted entire specimens, and placed them in a dry oilskin bag. Later, laying the plants flat on a specimen page, Lewis sandwiched them between pages made of blotting material. He recorded the collection locality, date, and habitat on the blotter paper itself, along with occasional comments on how the Native Americans ate or used the plants. Lewis then stacked the plants between two boards and tied the plant press together with straps. Lewis probably placed the plant press near the evening fire, where warm air helped dry the collection. Over the course of several days, water was squeezed from the plants, and, once dry, specimens were kept flat and dry in another press.

Much later, other botanists glued the specimens to high-rag content



Clarkia pulchella, classified and named by Frederick Pursh. Illustration from *Flora Americae Septentrionalis* by Pursh.



Lewisia cotyledon

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herbarium sheets and stored them in protective cabinets in a museum. Those from the Aylmer Lambert Herbarium in London were mounted in or after 1812. The sheets bear a distinctive watermark (illustrated by Cutright, 1967: 82). The unmounted specimens found in the American Philosophical Society were mounted in the Academy in 1921 by John M. Fogg, Jr. (Fogg, 1982). If kept dry and free from insects and physical damage, such specimens last for centuries, as Lewis's specimens have for the last 200 years.

Unfortunately much of the botanical collection from the Lewis and Clark Expedition was, after all of Lewis efforts to dry the specimens, lost in varying places and varying ways. For instance, early in the Expedition, Lewis sent Jefferson about 60 specimens; Jefferson in turn sent these for analysis to Barton, who Jefferson had asked to do the botanical descriptions of the Expedition collections, but about half of the sixty specimens disappeared and have never been found.

A far larger loss came with the destruction of the plant collection that Lewis made on the way up the Missouri River in the spring of 1805. Lewis stored hundreds of these specimens in a specially dug cache in the ground, from which he intended to retrieve them on the way down river. The cache was flooded in the spring of 1806 and by the time Lewis opened the cache on July 13th, 1806, fungus had destroyed countless hours of his work on hundreds of specimens. Lewis

must have been shattered by the loss. Barton, who had been considered for the Expedition but not asked to participate because of his questionable health and his old age (37), was not able to work on the returned collections -- apparently because of his health and a predisposition to procrastination. Bernard McMahon, renowned horticulturalist, respected scientist, and friend of Jefferson, Barton, and Frederick Pursh, suggested to Jefferson that Pursh would be suited for the job of organizing and describing the collection. It would then fall to Lewis to put everything into an organized narrative. In 1807 Lewis met Pursh, was very impressed, and paid Pursh about \$70 to begin the work. Pursh completed his end of the work in a little more than a year, returned most of the collection to McMahon, took some of the collection to England, and there published the collection (along with many other plants from other collectors) in his 1814 *Flora Americae Septentrionalis*. All but a few of the Expedition specimens which Pursh had taken with him were bought at auction years later and returned to the United States.

The total number of Expedition plants known now is 237, all but eleven (those in the Kew Garden Herbarium in London) are in the Academy of Natural Sciences in Philadelphia -- where both Lewis and Pursh began their Expedition botanical work.

Tragically, Lewis had been feeling increasingly troubled, pressured, and distraught in the years after the Lewis and Clark Expedition and he was unable to fulfill his own and Jefferson's expectations for publishing the results of the Expedition. He completed almost no work on the Expedition narrative. In 1809 he committed suicide.

A number of Colorado native plants honor Lewis in their names: [These plants are also native to Oregon, as well as *Lewisia columbiana*, *L. cotyledon*, *L. leeana*, *L. oppositifolia*, *L. rediviva*, *L. triphylla*, and *L. x whiteae*] *Lewisia nevadensis*, *Lewisia pygmaea*, *Mimulus lewisii* [synonym of *Erythranthe lewisii*], and *Adenolinum lewisii* [*Linum lewisii*]. Many more plants found in Colorado [and in Oregon, unless otherwise noted] were first found for science by Lewis: *Purshia tridentata*, *Sarcobatus vermiculatus*, *Phacelia heterophylla*, *Lomatium triternatum*, *Gaillardia pinnatifida* [not found in Oregon], *Balsamorhiza sagittata*, *Anticlea elegans*, *Ribes aureum*, *Erigeron*
continued on page 8



Linum lewisii

© 2006 GERALD CARR, COURTESY OF OREGON FLORA PROJECT



Lewisia triphylla

© 2009 ALLAN JENSEN, COURTESY OF OREGON FLORA PROJECT



Mimulus lewisii. Drawn and engraved by W. Hooker, for *Flora Americae Septentrionalis* by Pursh.

IMAGE COURTESY OF MISSOURI BOTANICAL GARDEN; BOTANICUS.ORG

State Board cont'd from page 2

Field trip liability waivers need to be saved for 5 years. The signed waivers should go to the chapter secretary. President Kelli Van Norman will add trip safety protocols and waiver retention to the NPSO Handbook. Each chapter must ensure that field trip leaders follow the field trip safety protocols and correctly use the liability waivers for every trip. The safety protocols and liability waiver are easily accessible on the website.

A committee (Cyndi Dion, Sunia Yang, Matt Morales, and Jason Clinch) researched options for on-line NPSO membership payments. The Board decided to create a line item on our budget and choose a provider at the next Board meeting. Selection criteria include the ability to make donations to other funds (OFP, Leighton Ho, etc.), pay dues, and have the ability to collect information needed for the NPSO membership database.

EarthShare Oregon — Billy Don Robinson will stay on the EarthShare board, but will no longer be NPSO liaison for EarthShare. Kelli Van Norman will be the liaison in the interim.

Kalmiopsis will be moving to an on-line format. Unless someone steps up to serve as editor, the journal will go dormant after the next issue. An announcement will be put in the *Bulletin* to let members know that *Kalmiopsis* will not be printed as a hardcopy issue.

The South Coast Chapter is now official with the State of Oregon; it still needs to establish a bank account.

Chapter Presidents are encouraged to take the information about the Oregon Flora Project challenge grant from NPSO back to their chapters.



2015 NPSO Annual Meeting

May 29-31

in Hood River

Save the Date!

Information and registration will be in the February *Bulletin*



NPSO/EarthShare Oregon Liaison Volunteer Needed

EarthShare Oregon (ESOR) is a workplace fundraising entity for environmental organizations. NPSO is a member group and as such we receive funding through ESOR. We are looking for an NPSO volunteer to be our liaison to ESOR. The main tasks are to coordinate the annual affiliation agreement in the spring and to track points earned by NPSO. This is a key position as we rely on these funds to support NPSO field research grants, Institute for Applied Ecology interns, Oregon Flora Project, publishing the *Kalmiopsis* journal, and mailing out the *Bulletin*. If you are interested, please contact Kelli Van Norman, president@npsoregon.org.

Meriwether Lewis, cont'd from page 7

compositus, *Calochortus elegans* (not found in Colorado, but the first *Calochortus* found for science), *Cleome serrulata* [synonym of *Peritoma serrulata*], *Chrysothamnus nauseosus* [synonym of *Ericameria nauseosa*], *Lupinus pusillus*, *Lupinus argenteus*, *Ipomopsis aggregata*, *Claytonia lanceolata*, *Shepherdia argentea*, *Erythronium grandiflorum*, *Achillea lanulosa* [synonym of *Achillea millefolium*], *Grindelia squarrosa*, *Paxistima myrsinites*, *Sambucus coerulea* [synonym of *Sambucus nigra*], *Machaeranthera pinnatifida* [not found in Oregon], *Lilium philadelphicum* [not found in Oregon] (first western specimen).

There are many books and many on-line sources about Lewis and Clark; three excellent on-line starting points are *The Academy of Natural Sciences of Philadelphia* [now *The Academy of Natural Sciences of Drexel University*] web site, Stuart Wier's "Guide to Sources of Information on Lewis and Clark", and "Discovering Lewis and Clark." For the most extensive collection of on-line Lewis and Clark documents see the "American Journal." (Some of the biographical information about Lewis, Pursh, Barton, and Nuttall in this *Aquilegia* article comes from the above sources.)



Lewisia rediviva

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NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

Address _____

City _____ State _____ Zip+4 _____

☐ Check to receive electronic *Bulletin*, sent by email in lieu of paper.

Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Native Plant Society of Oregon

P.O. Box 80714

Portland, OR 97280

DUES include monthly *Bulletin* and *Kalmiopsis* when published.

Membership is for the calendar year. New memberships enrolled after July 1 include the following year.

☐ New

☐ Renewal

☐ Student – \$12

☐ Regular – \$25

☐ Family – \$35

☐ Sustaining – \$60

☐ Patron – \$125

☐ Life Membership – \$500

☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$25 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____

Leighton Ho Memorial Field Botany Fund \$ _____

Augusta Rockafellar Memorial Scholarship \$ _____

Rare and Endangered Plant Conservation Fund \$ _____

Friends of the Oregon Flora Project \$ _____

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and changes of address (include old address) should be sent to the Membership Chair. Changes of address may also be e-mailed to Membership@NPSOregon.org.

OFFICERS & COMMITTEE CHAIRS

STATE OFFICERS

DIRECTORS..... Michael Hartman, Dan Luoma, Kareen Sturgeon (to 6/2015); Linda Hardison, Laura Taylor, Kevin Weitemier (to 6/2016)
 PRESIDENT Kelli Van Norman..... president@NPSOregon.org
 IMMEDIATE PAST PRESIDENT..... Judi Sanders past_president@NPSOregon.org; 503-622-2008
 VICE PRESIDENT..... Billy Don Robinson vice-president@NPSOregon.org; 503-515-1708
 SECRETARY..... Lisa Blackburn secretary@NPSOregon.org; 503-538-3976
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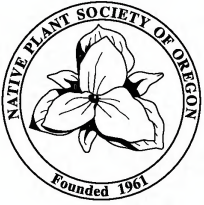
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The OFP is in the midst of a huge accomplishment wrapped in an equally large challenge: we are ready to publish Volume 1 of the *Flora of Oregon*, and need to raise the funds necessary to print it. These publication costs are above our normal operating expenses of all staff and student salaries and direct costs. In addition to your regular charitable support of the OFP, we are asking that you make a special contribution toward the printing of the *Flora of Oregon*. An extra gift now (through the end of the year) will have twice the impact: your donations will be matched by a challenge grant from the state NPSO for up to \$10,000.

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